new products bulletin

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This monthly bulletin is published to inform Canadian industry of licensing and joint venture opportunities that may be investigated for the purpose of forming manufacturing affiliations. The Department cannot assume any responsibility for claims made or for transactions which ensue from the publication of any items in this bulletin. If you are interested in any of the proposals you should contact the correspondent identified with the item and send a copy of your initial correspondence to the Canadian Government Trade Commissioner responsible for the area at the address indicated, in order that he can provide appropriate assistance or commercial information.

The Licensing Opportunities Section (34/3) of the BUSINESS CENTRE of the Department of Industry, Trade and Commerce, Ottawa, Ontario K1A 0H5 (Telephone: (613) 995-5771) should be advised of any agreements concluded as a result of this publicity.

Le présent bulletin, publié tous les mois, a pour objet d'informer l'industrie canadienne d'occasions de fabrication sous licence et d'entreprise en participation qu'il est possible d'étudier aux fins de constituer des affiliations manufacturières. Le Ministère ne peut assumer aucune responsabilité à l'égard des réclamations ou transactions découlant de la publication d'articles dans le présent bulletin. Si l'une ou l'autre des propositions vous intéresse, auriez-vous l'obligeance de communiquer avec le correspondant et transmettre copie de votre premier échange de correspondance au délégué commercial du Gouvernement du Canada qui s'occupe de la région en cause, à l'adresse indiquée, afin qu'il puisse vous fournir l'aide ou les renseignements commerciaux pertinents.

Prière d'informer la Section des possibilités de licences (34/3), du CENTRE DES ENTREPRISES, ministère de l'Industrie et du Commerce, Ottawa (Ontario) K1A 0H5 (Téléphone: (613) 995-5771), de toute entente intervenue à la suite de la présente publicité.

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Alkali Earth Oxalate Bonded Foundry Molds/288

A three part method of manufacture for improved foundry molds. A small amount of magnesium oxide and reagent is mixed in the sand and converted to oxalate which binds the sand together. A mold wash or spray is applied to strengthen the mold surface. The used sand and alkali earth oxide mixture can be regenerated and used again, resulting in new sand savings. The casting shakes out easily. Write: Case 6471, Canadian Patents and Development Limited, 275 Slater Street, Ottawa, Canada K1A 0R3 and send a copy of your initial correspondence to: Licensing Opportunities Section (34/3), Business Centre, Department of Industry, Trade and Commerce, Ottawa, Canada K1A 0H5.

Moules de fonderie renforcés de terre oxalate alcaline/288

Méthode de fabrication en trois étapes permettant d'obtenir des moules de fonderie améliorés. De petites quantités d'oxyde magnésique et de réactif sont mélangées au sable et transformées en oxalate, une substance qui lie le sable. Un enduit ou une pulvérisation est ensuite appliqué au moule pour en renforcer la surface. Le sable et le mélange alcalin de terre et d'oxyde peuvent être regénérés et utilisés à nouveau, permettant ainsi une économie de sable de remplacement. Le moulage se détache facilement. Écrire: Cas 6471, Société canadienne des brevets et d'exploitation limitée, 275, rue Slater, Ottawa (Canada) K1A 0R3 et faire parvenir une copie de votre correspondance initiale à la: Section des possibilités de licences (34/3), Centre des entreprises, Ministère de l'Industrie et du Commerce, Ottawa (Canada) K1A 0H5.

Washes for Foundry Molds/288

Mold washes that strengthen the surface of the mold and improve the fluidity of the molten metal in casting steel, iron, and copper alloys. Used with foundry sand containing a binder converted from an alkali earth oxide, the washes provide improved casting definition and eliminate erosion-related defects. Write: Case 6781, Canadian Patents and Development Limited, 275 Slater Street, Ottawa, Canada K1A 0R3 and send a copy of your initial correspondence to: Licensing Opportunities Section (34/3), Business Centre, Department of Industry, Trade and Commerce, Ottawa, Canada K1A 0H5.

Enduits pour moules de fonderie/288

Ces enduits pour moules renforcent la surface du moule et accroissent la fluidité du métal en fusion, pour le moulage d'alliages d'acier, de fer et de cuivre. Utilisé avec du sable de fonderie contenant un liant provenant d'un mélange alcalin de terre et d'oxyde, l'enduit assure une meilleure reproduction du moulage et permet d'éviter les imperfections causées par l'érosion. Écrire: Cas 6781, Société canadienne des brevets et d'exploitation limitée, 275, rue Slater, Ottawa (Canada) K1A 0R3 et faire parvenir une copie de votre correspondance initiale à la: Section des possibilités de licences (34/3), Centre des entreprises, Ministère de l'Industrie et du Commerce, Ottawa (Canada) K1A 0H5.

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Screw Pumps/288

Swiss manufacturer offers a Canadian company, preferably in the water treatment business and having facilities for producing the material, the Canadian manufacturing and marketing rights (subsequent territories are subject to licensor's approval) for its screw pumps used in pumping the waste water of sewage plants, sewerage collectors, drainage and irrigation plants. The pumps are currently produced in Switzerland, Spain, France and Japan. Fifteen years of experience is available to the licensee. Claimed advantages of the product line are: low operating costs, energy saving up to one third compared with other pumping systems, capability to pump raw waste. The Swiss firm can supply literature in the English or French languages to interested Canadian manufacturers. See illustrations (1). Write: Giroud – Olma S.A., Louis Giroud-Strasse 26, CH-4600, Olten, Switzerland and send a copy of your initial correspondence to: Commercial Division, Canadian Embassy, Kirchenfeldstrasse 88, 3005 Berne, Switzerland.

Stock Feed Pellets/288

Australian company offers the North American manufacturing and marketing rights to a Canadian company for its chemical formula which is sprayed on to agricultural wastes such as wheat straw, sugar cane baggas or rice husks to break down the cell walls and make the total protein contained available to sheep or cattle. The digestibility is raised in some cases by more than 100%. This enables such wastes to then be utilised as valuable stock feed either as pellets mixed with a small percentage of whole grain or as silage. The company will consider a licensing or joint venture arrangement for the manufacture of its stock feed in Canada. Write: World Chemicals Pty. Limited, Suite 2903, AMP Centre,50 Bridge Street, Sydney, N.S.W. 2000, Australia and send a copy of your initial correspondence to: Canadian Consulate General, A.M.P. Centre, 8th Floor, 50 Bridge Street, Sydney, N.S.W. 2000, Australia.

Styrofoam Boxes/288

Norwegian company is interested in licensing the manufacture of a new lightweight polystyrene foam styropor box with superior insulation properties for use in the packaging of chilled or frozen fish and other foodstuff. The company claims to offer a special process resulting in expanded polystyrene of unusual strength which is comparable to wood. In transport, the boxes are far superior to wood. In addition to being lighter, they require for instance only half the amount of ice in fish transport, and at 5°C (41°F) there will still be ice left after 24 hours. The licence would include know-how, moulds, recipies, plant set-up and training of personnel. See illustration (3). Write: Prosjektstyring A.S.,

Pompes à vis/288

Un fabricant suisse offre à une société canadienne, préférablement établie dans le secteur du traitement des eaux usées et ayant les installations pour fabriquer le produit, les droits de fabrication et de commercialisation, pour le Canada (et d'autres pays, sous réserve de l'approbation du fabricant suisse), de ses pompes à vis utilisées pour le pompage des eaux usées dans des stations d'épuration, des collecteurs et des installations de drainage et d'adduction d'eau. On fabrique déjà ces pompes en Suisse, en Espagne, en France et au Japon et le détenteur de la licence aura accès à 15 ans d'expérience dans le domaine. Le produit aurait, semble-t-il, les avantages suivants: faibles coûts d'exploitation, possibilités d'économie d'énergie allant jusqu'à un tiers par rapport à d'autres systèmes et la possibilité de pomper des eaux usées brutes. La société suisse offre aux fabricants canadiens intéressés de la documentation en français ou en anglais. Voir les illustrations (1). Veuillez écrire à Giroud-Olma S.A., Louis Giroud-Strasse 26, CH-4600, Olten, Suisse, et adresser une copie de votre correspondance initiale à la Division commerciale de l'ambassade du Canada, Kirchenfeldstrasse 88, 3005 Berne, Suisse.

Boulettes pour l'engraissement animal/288

Une société australienne offre à une société canadienne les droits de fabrication et de commercialisation en Amérique du Nord de son produit chimique destiné à être pulvérisé sur les déchêts de l'agriculture, comme la paille du blé, les bagasses de la canne à sucre ou les coques du riz, pour en briser les parois des cellules afin d'en rendre la totalité du contenu protéinique assimilable par les moutons ou les bovins. La digestibilité en est accrue dans certains cas de plus de 100%. Il est ainsi possible d'utiliser ces déchets comme aliments nutritifs d'engraissement animal, soit sous forme de boulettes, en les mélangeant à une faible proportion de grains entiers, soit comme fourrage. La société est disposée à offrir une licence ou à travailler en coparticipation pour la fabrication de ses aliments d'engraissement au Canada. Écrire à: World Chemicals Pty. Limited, Suite 2903, AMP Centre, 50 Bridge Street, Sydney, NSW 2000, Australie et faire parvenir une copie de votre correspondance initiale au: Consulat Général du Canada, AMP Centre, 8e étage, 50 Bridge Street, Sydney, NSW 2000 Australie.

Boîtes de styromousse/288

Une société norvégienne offre une licence de fabrication pour une nouvelle boîte faite de polystyrène expansé léger ("styropor") avec des propriétés isolantes supérieures pour l'emballage du poisson réfrigéré ou congelé et autres aliments. La société affirme que son procédé spécial fournit un polystyrène expansé d'une solidité exceptionnelle, comparable à celle du bois. Pour le transport, ces boîtes sont de loin supérieures à celles de bois. Non seulement sont-elles plus légères, elles permettent en plus d'utiliser deux fois moins de glace pour le transport du poisson et à 5°C (41°F), il reste encore de la glace après 24 heures. Les modalités de la licence comprennent le savoir-faire, les moules, les procédés de fabrication, l'aménagement de l'usine et la formation du

Kirkegt. 15, Oslo 1, Norway and send a copy of your initial correspondence to: Commercial Division, Canadian Embassy, Postuttak, Oslo 1, Norway.

Electroslag Furnace/288

Russian state trade organization offers for licensing in Canada the EShP-40 two channel (bifilar) electroslag furnace incorporating seven new inventions from the E.O. Paton Electric Welding Institute under the Ukrainian Academy of Sciences. The furnace can be built by manufacturers of heavy electrical heat treatment equipment. It delivers 40 ton slabs of higher quality steel than its predecessors, the ingots having good surface quality, physical and chemical uniformity through cross section and the steel is fine grained with minimal impurities and non-metallic inclusions: hydrogen, for example, has been cut to 0.00015-0.00020 per cent. Ingot dwell time in the mould has been cut by 50-75 per cent. The average power consumption to cook a ton of metal is stated to be no more than 1,500 kWh. Write: V/O Licensintorg, 31 U1. Kahovka, 113461 Moscow, U.S.S.R. and send a copy of your initial correspondence to: Commercial Division, Canadian Embassy, 23 Starokonyushenny Pereulok, Moscow, U.S.S.R.

Technique for Welding Hard Alloy Coating/288

Russian state foreign trade organization offers for license in Canada a method of building up blast furnace charging equipment to withstand extreme conditions. The welding on of a hard alloy coating to blast furnace bells, particularly for blast furnaces of 3,000 cu.m and up, increases the life of the bell between 7 and 12 months to three years or more. The most important feature of the new alloy is its structural inhomogeneity: a combination of high-heat hard grains with a softer, lower-temperature binder. The hard component, e.g., tungsten carbide, resists abrasive action of the cast, while the softer component – copper alloyed with nickel and manganese – ensures that the hard grains adhere to the bell. Top gas blows against the built-up bell coating, eroding the soft binder. The hard grains become exposed to about a third of their height and protect the remaining binder against further erosion. Large components unfeasible for treating in a furnace are provided with replaceable guard plates built up manually or automatically with the alloy by electric arc welding using special tubular electrodes. Write: V/O Licensintorg, 31 U1. Kahovka, 113461 Moscow, U.S.S.R. and send a copy of your initial correspondence to: Commercial Division, Canadian Embassy, 23 Starokonyushenny Pereulok, Moscow, U.S.S.R.

personnel. Voir l'illustration (3). Veuillez écrire à Prosjektstyring A.S., Kirkegt. 15, Oslo 1, Norvège, et adresser une copie de votre correspondance initiale à la Division commerciale de l'ambassade du Canada, Postuttak, Oslo 1, Norvège.

Four à refusion sous laitier conducteur/288

Un organisme commercial d'état soviétique offre les droits de licence au Canada du four à refusion sous laitier conducteur EShP-40 (à deux cheminées-deux laitiers) comportant sept inventions nouvelles de l'Institut de la soudure électrique E.O. Paton, sous les auspices de l'Académie des sciences de l'Ukraine. Le four peut être construit par des fabricants de matériel lourd de fusion à arc électrique. Il produit 40 tonnes de brames d'un acier de qualité supérieure à celui produit auparavant; les lingots présentent une bonne surface, une grande uniformité physique et chimique en section transversale et l'acier a une texture fine, ne présentant qu'un minimum d'impuretés et d'inclusions non métalliques; l'hydrogène par exemple, a été réduit à 0,00015 à 0,00020 pour cent. Le temps de refroidissement du métal dans la lingotière est abaissé de 50 à 75%. La consommation moyenne d'énergie pour faire fondre une tonne de métal n'est, parait-il, pas supérieure à 1 500 KWh. Prière d'écrire à: V/O Licensintorg, 31 U1. Kahovka, 113461 Moscou, URSS; faire parvenir une copie de votre correspondance initiale à: Division commerciale, Ambassade du Canada, 23 Starokonyushenny Pereulok, Moscou, URSS.

Technique de soudure d'un blindage en alliage dur/288

Un organisme d'état soviétique dans le domaine du commerce international offre les droits de licence au Canada d'une méthode de fabrication de l'appareil de chargement des hauts-fourneaux, offrant une grande résistance aux conditions extrêmes. En soudant un blindage en alliage dur sur les parois des cloches de haut-fourneau, en particulier dans le cas des hauts-fourneaux de 3 000 m^3 et plus, on peut accroître la durée de vie de la cloche de 7 et 12 mois à 3 ans et plus. La caractéristique la plus importante du nouvel alliage est son hétérogénéité structurelle: il est composé de grains durs résistants à la chaleur dans un liant plus tendre, fusionnant à plus basse température. L'élément dur, qui est un carbure au tungstène, résiste à l'action abrasive de la coulée, tandis que l'élément plus tendre, un alliage de cuivre avec du nickel et du manganèse, permet aux grains durs d'adhérer aux parois de la cloche. Les gaz qui s'échappent frappent le blindage de la cloche, entamant le liant à texture plus tendre. Les grains durs viennent à être exposés dans une proportion du tiers de leur hauteur et assurent alors au reste du liant une protection contre toute érosion subséquente. Les éléments trop grands pour pouvoir être traités dans un four sont munis de plaques protectrices remplaçables, montées manuellement ou automatiquement, par soudure à l'arc électrique à l'aide d'électrodes tubulaires spéciales. Prière d'écrire à: V/O Licensintorg, 31 U1. Kahovka, 113461 Moscou URSS; faire parvenir une copie de votre correspondance initiale à: Division commerciale, Ambassade du Canada, 23 Starokonyushenny Pereulok, Moscou, URSS.

Medical Preparations from Herbs/288

German firm offers the know-how and licencing for production and distribution in Canada, and perhaps the U.S., of medical preparations based on traditional medicine and herbs. Offered are the Fulda Monastery Teas as well as pharmaceutical products made out of the Comfrey plant, Symphytum peregrinum. Product forms include ointments, gels, homeopathic preparations and plant components. All pharmaceutical products are approved by the West German Food and Drug Agency and are patented. Write: Dr. Helmut Ballmaier, c/o Herstellungs-und Vertriebsabteilung, Engel-Apotheke, Karlstrasse 4, Postfach 1309, D64 Fulda, West Germany and send a copy of your initial correspondence to: Canadian Consulate General, Immermannstrasse 3. 4 Duesseldorf, West Germany.

Leaf Baler/288

American inventor offers licensing rights to the Canadian, United States, British and French patents for his leaf baler machine that bales loose leaves compactly so that they can be easily loaded onto trucks and taken to a dump site rather than be blown around in transit. A bale of leaves measures 75 cm x 45 cm x 45 cm (30" x 16" x 16") and weighs between 13.5 kg and 18 kg (30 and 40 lbs.) (depending upon the amount of moisture retained in the leaves). This represents a volume of approximately .135 m^3 (4.5 cubic feet) with at least 50 bales on average, or 6.75 m^3 (225 cubic feet) of leaves on one truck. In a loose state, the most that could be placed on a truck would be .9 m^3 or 1.2 m^3 (30 or 40 cubic feet). Write: Mr. Alfred J. Sellari, 93 Meacham Avenue, Nutley, New Jersey, 07110 and send a copy of your initial correspondence to: Canadian Consulate General, 1251 Avenue of the Americas, New York City, N.Y. 10020.

Particle Build-Up Suppressor/288

American inventor offers the manufacturing and North American marketing rights to a Canadian company for his particle build-up suppressor which saves energy and has environmental advantages. The principal field of application is industrial air handling system(s) used for process (drying, cooling, aspirating and/or classifying) and/or internal environmental (dust collection) purposes. The reoccurring problem of build-up of solids causing decrease in operating efficiency and necessitating plant shut down is overcome by capturing and removing solids from the air stream continuously while the plant is in operation. Other advantages include: Reduced maintenance and plant emissions, improved process and operating efficiency, improved on-stream factors and increased plant output. Write: Woodrow W. Phillips, 815 North Gilmore Avenue, #105, Lakeland,

Préparations médicinales à base de plantes/288

Une société d'Allemagne offre le savoir-faire et les licences de fabrication et de distribution au Canada et, peut-être, aux États-Unis des médicaments traditionnels à base de plantes. Elle offre également les thés Fulda Monastery, ainsi que des produits pharmaceutiques composés de consoude et de symphytum peregrinum. Les produits se présentent sous forme d'onguents, de gelées, de préparations homéopathiques et de parties composantes de plantes. Tous les produits pharmaceutiques sont approuvés par l'Administration des aliments et drogues de la République fédérale d'Allemagne et sont brevetés. Écrire à: Dr. Helmut Ballmaier, a/s Herstellungs-und Vertriebsabteilung, Engel-Apotheke, Karlstrasse 4, Postfach 1309, D64 Fulda, Allemagne de l'Ouest, et envoyer une copie de votre correspondance initiale au: Consulat général du Canada, Immermannstrasse 3, 4 Duesseldorf, Allemagne de l'Ouest.

Ramasseuse-presse pour feuilles mortes/288

Un inventeur américain offre les droits de licence pour l'utilisation au Canada, aux États-Unis, en Angleterre et en France de sa ramasseuse-presse brevetée qui lie les feuilles mortes de façon compacte afin qu'elles puissent être chargées facilement dans des camions pour être ensuite déchargées dans un dépotoir; un des grands avantages de cette méthode est qu'ainsi les feuilles ne s'envolent pas pendant le transport. Une balle de feuilles mesure 75 cm X 45 cm X 45 cm (30 po X 16 po X 16 po) et pèse entre 13,5 et 18 kg (30 et 40 livres) (le poids dépend de la quantité d'humidité contenue dans les feuilles). Une balle de feuilles représente un volume d'environ 0,135 m^3 (4,5 $pieds^3$); un camion peut contenir en moyenne au moins 50 balles de feuilles ou 6,75 m^3 (225 pi^3). Dans les conditions ordinaires un camion ne peut pas contenir plus de 0,9 à 1,2 m^3 (30 ou 40 pi^3) de feuilles non liées. Les intéressés sont priés d'écrire à: M. Alfred J. Sellari, 93 Meacham Avenue, Nutley, New Jersey 07110, États-Unis et de faire parvenir une copie de votre correspondance initiale au: Consulat général canadien, 1251 Avenue of the Americas, New York City, N.Y. 10020.

Éliminateur d'accumulation de particules/288

Un inventeur américain offre à une société canadienne les droits de fabrication et de commercialisation pour l'Amérique du Nord de son éliminateur d'accumulation des particules, qui permet d'économiser de l'énergie et de réduire la pollution. La principale application de cette invention: les systèmes aérauliques industriels destinés à des fins environnementales internes (collecteur de poussières) et (ou) à des procédés (séchage, refroidissement, aspiration et(ou) triage). Le problème constant de l'accumulation des solides dans ces systèmes, qui diminue l'efficacité d'exploitation et oblige à fermer l'usine pour le nettoyage, est résolu par l'interception et l'élimination continues des solides dans l'air qui circule dans l'usine en activité. Le système offre entre autres avantages, une diminution de l'entretien et des émissions, un accroissement de l'efficacité de l'exploitation et des procédés et une plus grande production. Veuillez écrire à: M.

Florida 33801, U.S.A. and send a copy of your initial correspondence to: Canadian Consulate General, 900 Coastal States Building, 260 Peachtree Street, Atlanta, Georgia 30303.

Putter/288

American inventor offers his U.S. Patent rights to a Canadian company to manufacture and market in Canada a new type of putter which automatically indicates direction and slope of a putt. The device incorporates a level in the putter head giving a putter the line or slope of the green and also incorporates a table on the putter head for indicating the direction at which a putt should be stroked according to the slope indicated by the level. Claimed to be relatively simple to manufacture, the putter can be produced in a wide variety of designs. Write: Mr. David O'Reilly, Jessup & Beecher, Union Bank Plaza, 15233 Ventura Boulevard, Sherman Oaks, California 91403 and send a copy of your initial correspondence to: Canadian Consulate General, 510 West Sixth Street, Los Angeles, California 90014.

Radiator Filter/288

Australian inventor offers manufacturing rights to a Canadian company for radiator filter designed to trap rust flakes and other substances in the water that flows from the engine block. The filter prevents engine overheating by eliminating blocked radiator core passages. An inward facing cone made of non corrosive mesh material, increases the total effective area of the filter, offers less restriction in the water flow and allows longer time between filter cleaning. A patent is pending in Australia. Rights are available to market the device in Canada and in any other country in which the licensee wishes to seek patent protection, before the Australian patent is issued. Write: Mr. John Mishinski, 69 Dunellan Street, Greenslopes, Brisbane 4120, Queensland, Australia and send a copy of your initial correspondence to: Canadian Consulate General, A.M.P. Centre, 8th Floor, 50 Bridge Street, Sydney, N.S.W. 2000, Australia.

Shower Dispenser/288

Australian inventor offers manufacturing rights to a Canadian company for his brass and plastic shower dispenser invention designed to introduce various liquids such as liquid soap, shampoo, deodorant, perfume, desinfectant or medical preparations into the shower water and to increase the force of the water from the shower outlet. The liquids are contained in two plastic containers from which the flow can be controlled singly or together. See illustration (2). Write: Mr. John Mishinski, 69 Dunellan Street, Greenslopes, Brisbane 4120, Queensland, Australia and send a copy of your initial correspondence to: Canadian Consulate General, A.M.P. Centre, 8th Floor, 50 Bridge Street, Sydney, N.S.W. 2000, Australia.

Woodrow, W. Phillips, 815 North Gilmore Avenue, #105, Lakeland, Floride 33801, E.-U., et faire parvenir une copie de votre correspondance initiale au: Consulat général du Canada, 900 Coastal States Building, 260 Peachtree Street Atlanta, Georgie 30303.

Bâton de golf pour roulé/288

Un inventeur américain offre ses droits de brevet américain à une société canadienne désireuse de fabriquer et de commercialiser au Canada un nouveau genre de bâton pour roulé qui indique automatiquement l'orientation et la pente d'un coup roulé. L'extrémité supérieure du bâton comporte un niveau qui sert à indiquer l'inclinaison ou pente du vert ainsi qu'une table devant préciser l'orientation du coup selon le degré de pente indiqué par le niveau. Le bâton est, semble-t-il, relativement simple à fabriquer et peut prendre diverses formes. Écrire à: M. David O'Reilly, Jessup & Beecher, Union Bank Plaza, 15233 Ventura Boulevard, Sherman Oaks, Californie 91403 et envoyer une copie de votre correspondance initiale au: Consulat général du Canada, 510 West Sixth Street, Los Angeles, Californie 90014.

Filtre pour radiateur/288

Un inventeur australien offre à une société canadienne les droits de fabrication de son filtre pour radiateur, conçu pour retenir les parcelles de rouille et autres substances en suspension dans l'eau provenant du bloc-moteur. Le filtre empêche le moteur de surchauffer en éliminant l'obstruction des canalisations du faisceau du radiateur. Un cône en treillis inoxydable, orienté vers l'intérieur, augmente la superficie efficace totale du filtre, ralentit moins la circulation de l'eau et permet d'utiliser pendant plus longtemps le filtre sans avoir à le nettoyer. Le filtre fait l'objet d'une demande de brevet en Australie. L'offre porte sur la commercialisation du dispositif au Canada et dans tout autre pays où le détenteur de la licence pourrait désirer la protection du brevet, avant la délivrance du brevet australien. Veuillez écrire à: M. John Mishinski, 69 Dunellan Street, Greenslopes, Brisbane 4120, Queensland, Australie, et adresser une copie de votre correspondance initiale au: Consulat général du Canada, A.M.P. Centre, 8th Floor, 50 Bridge Street, Sydney, N.S.W. 2000, Australie.

Distributeur pour douche/288

Un inventeur australien offre à une société canadienne les droits de fabrication de son distributeur pour douche, fait de plastique et de laiton, qui permet de mélanger à l'eau divers liquides comme du shampooing, du déodorant, du parfum, du savon liquide, du désinfectant ou des médicaments et d'augmenter la puissance du jet d'eau sortant de la pomme de la douche. Les liquides sont dans deux contenants de plastique et leur débit peut être contrôlé simultanément ouséparément. Voir l'illustration (2). Veuillez écrire à M. John Mishinski, 69 Dunellan Street, Greenslopes, Brisbane 4120, Queensland, Australie, et adresser une copie de votre correspondance initiale au: Consulat général du Canada, A.M.P. Centre, 8th Floor, 50 Bridge Street, Sydney, N.S.W. 2000, Australie.

INVENTIONS FROM ILMA

The following inventions are offered for licensing or sale by: The Inventors Licensing and Marketing Agency, P.O. Box 251, Tarzana, California 91356. When requesting additional information please send a copy of your initial correspondence to: Canadian Consulate General, 510 West Sixth Street, Los Angeles, California 90014.

Barkey Indicator Holder/288

A new indicator holder offering precision, accuracy, ease and convenience in setup and operation; versatility in various hole sizes and leveling options; durable and solid quality construction; savings in time and energy; elimination of possible damage to indicator. Patent pending. Available for sale or licensing.

The Van Clamp Chain Saw Vise/288

A vise made from cold rolled steel and aluminum of T6061 alloy, for making field repairs on chain saws and saw parts. The vise has two fixed jaws and one movable jaw. Additional clamping members in the form of wing bolts are threaded through one of the jaws. The vise also has an anvil upon which various repairs or operations such as hammering may be carried out. Protruding from the bottom side of the anvil is a mounting spike. The vise may be mounted horizontally on a stump or vertically on a tree trunk merely by driving the spike in with hammer blows on the anvil. Thus mounted, the vise can be pivoted 360 degrees to facilitate positioning of the workpiece. Six different models are available: large, medium and midget sizes are available in both steel and aluminum, ranging from .45 kg to 4.9 kg (1 lb. to 11 lbs.). Product is in production. The sales potential of the vise is unlimited because it is designed for every style and make of saw on the market today. U.S. Patent No. 4,109,900. Available for sale or licensing.

Center of Gravity Finder/288

This finder is a center of gravity seeking block which locates the center of gravity to a high degree of accuracy before the object is lifted free of the dock or deck or flat bed. The block is moved by the operator in the direction of the heavier end of the object, until the tension of the sling at the lighter side of the object is equalized with the tension of the sling on the heavier side. As the block reaches the center of gravity, both sides are under equal tension. The loading dock hand can see the change in the point of equal

INVENTIONS DE L'AGENCE ILMA

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Porte-indicateur de centre Barkey/288

Ce nouveau porte-indicateur offre la précision, l'exactitude et la facilité au cours du montage et du travail; la souplesse d'emploi pour diverses grandeurs de trous et un choix de niveau; une construction durable et solide; une économie de temps et d'énergie; l'élimination de toute possibilité d'abîmer l'indicateur. Brevet en instance disponible pour la vente ferme ou pour la fabrication sous licence.

Étau Van Clamp pour scies articulées/288

Cet étau est construit en acier laminé à froid et en aluminium d'alliage T6061 et permet de réparer les scies articulées et leurs pièces sur le chantier. Il comporte deux mâchoires fixes et une mâchoire mobile. Des boulons à oreilles passent à travers l'une des mâchoires et constituent des mâchoires supplémentaires. L'étau comporte aussi une enclume sur laquelle on peut procéder à des réparations ou à des opérations variées tel que le martelage. Un crampon de montage dépasse le pied de l'enclume. L'étau peut être monté horizontalement sur une souche d'arbre, ou bien verticalement sur un tronc d'arbre en frappant l'enclume avec un marteau pour enfoncer le crampon. Une fois qu'il est monté de cette manière, on peut faire pivoter l'étau de 360° pour faciliter la mise en place de la pièce sur laquelle on veut travailler. On peut se procurer six modèles différents: grand, moyen ou miniature, et ceci en aluminium ou en acier. Le poids va de .45 kg à 4.9 kg (d'une livre à 11 lbs.). La fabrication de cet article est déjà commencée et les ventes atteindront certainement des niveaux très élevés, car cet outil peut servir à réparer n'importe quel modèle ou n'importe quelle marque de scie qui existe aujourd'hui. Brevet américain nº 4,109,900 disponible pour la vente ferme ou pour la fabrication sous licence.

Indicateur de centre de gravité/288

Ce dispositif est une poulie qui indique avec précision le centre de gravité d'une charge avant même que cette charge ne quitte le dock, le pont ou l'assise. L'opérateur déplace la poulie vers le côté le plus lourd de la charge jusqu'à ce que la tension de l'élingue sur le côté le plus léger soit égale à la tension de l'élingue du côté plus lourd. Lorsque la poulie atteint le centre de gravité, les deux côtés ont la même tension. Le docker peut voir le changement qui se produit au point d'égalité des masses, quand la poulie passe au centre de gravité et que le côté plus léger a tendance à

display of weight, when the block passes the center of gravity, and the lighter end shows a tendency to rise. A pin is inserted in the block to lock its position and the load is ready to be lifted. The pully is rough textured to prevent cable slippage. U.S. Patent No. 4,139,179. Available for sale or licensing.

Drum Saver and Pump Mounting Adapter/288

An adaptor which is a quick lever toggle locking device that enables the installation of the pump on a new oil barrel or drum quickly and effortlessly. Steel drum heads have a high mortality rate due to the severe flexing to which they are subjected when the contents are removed by hand pump. To reduce drum head damage and to reduce the time required to install the pumps in each drum, this adaptor has been designed to receive the pump in its threaded receiver, and thereafter, the pump is simply dropped in, and the toggle is closed. The drum saver transfers the stress to the barrel rim and sides, relieving the drum head of metal fatigue. The drum saver is removed by releasing the toggle lock and lifting the pump out for installing on another drum. Patent pending. Available for sale or licensing.

Lathe Accessory/288

This patented device can quickly enable an engine lathe to become a far more versatile machine. Accurate machine tapers, contours, templates, and special rapid cuts are all made possible by its use. But the most important feature – completely new in concept – is a precision control that allows the lathe's normally fixed selections of lead to be varied as desired. Any screw-cutting lathe equipped with the tool can thus generate all Metric, American, other standard or non-standard threads, worms, wirelays, etc., with no need for special gears or lead screws. Patent available for sale or licensing.

Key Warmer/288

A system for combining a key heater with the conventional car cigarette lighter to overcome the problem of frozen gas caps, automobile locks, padlocks, door locks, etc. Patent pending. Available for sale or licensing.

Extension Ladder Step/288

The Step E-Z is a new two-step device that rests on the extension ladder step to give the user a wider and safer support. It is portable, can be moved up or down as required and provides comfort and safety. Rights available for sale or licensing.

monter. Il enfonce alors une cheville dans la poulie pour la bloquer et on peut lever la charge. La gorge de la poulie a une surface rugueuse pour empêcher la câble de glisser. Brevet américain nº 4,139,179 disponible pour la vente ferme ou la fabrication sous licence.

Support de pompe à bras/288

Ce dispositif est un support à levier articulé qui permet d'installer une pompe à bras sur un baril de pétrole rapidement et sans effort. Les fonds de barils d'acier ne durent pas longtemps par suite des fléchissements prononcés dont ils souffrent quand on les vide au moyen d'une pompe à bras. Pour réduire les dégâts et le temps nécessaire à installer une pompe sur un nouveau baril, on peut utiliser ce dispositif qui a été conçu pour tenir la pompe dans son logement fileté, après quoi il est très simple d'installer la pompe en se contentant de serrer le support articulé. Ce dispositif fait porter la charge par le rebord du baril et par ses côtés, si bien que le fonds ne souffre pas de fatigue. On enlève le dispositif en desserrant le levier de support et en levant la pompe pour l'installer sur un autre baril. Brevet en instance disponible pour la vente ferme ou pour la fabrication sous licence.

Accessoire de tour revolver/288

Ce dispositif breveté transforme rapidement un tour en machine beaucoup plus flexible. La taille en cône, les contours, les gabarits et les découpages rapides spéciaux deviennent tous réalisables avec cet appareil. Mais la caractéristique la plus importante de cette innovation révolutionnaire est le réglage précis qui permet de varier à l'infini les pas normalement limités du tour. N'importe quel tour revolver à fileter équipé de ce dispositif peut créer tous les pas, filets, poses de fils, etc., sans avoir besoin d'outils spéciaux ou de vis-mères. Le brevet est disponible pour la vente ferme ou pour la fabrication sous licence.

Chauffe-clef/288

Cet appareil ingénieux combine un chauffe-clef et un allume-cigarettes électrique de voiture et résoud ainsi le problème des bouchons de réservoirs antivols, serrures d'automobiles, cadenas, serrures de portes d'entrée, etc., qui sont gelés. Brevet en instance disponible pour la vente ferme ou pour la fabrication sous licence.

Repose-pieds d'échelle/288

Le Step E-Z est un dispositif qui se pose sur deux barreaux d'échelle pour fournir aux pieds du peintre un support plus large et plus sûr. Il est mobile et peut être déplacé d'un barreau à un autre selon les besoins pour offrir le confort et la sûreté à n'importe quelle hauteur. Droits disponibles pour la vente ferme ou pour la fabrication sous licence.

Go Ped – Powered Third Wheel for Bicycle/288

A Go Ped which converts an ordinary bicycle to Moped performance without the handling, vibration, cleanliness and wear problems of standard conversions. The 11.25 kg (25 pound) Go Ped pushes the bicycle and rider using its own wheel. It has an automatic clutch and a 2 HP 35 CC gasoline engine that delivers a quiet, vibration free 50 km/h (30 MPH). Unique linkages to the bicycle provide smooth cornering and bounce control. This combination is a blending that the bicyclist enjoys. The bicycle is concerted without tools in a matter of seconds. A welded security loop allows locking to prevent theft. Advantages of the Go Ped over the Moped include: better hill climb performance; pedal gear ratio selection of bicycle is retained; safer in traffic due to higher silhouette; freewheels for pedaling without engine running; cost advantage to those already owning a bicycle; no engine vibration. Two versions are designed so as to accommodate both coaster and caliber bicycle braking systems and no tools are required for quick disconnect. Patent pending. Available for sale or licensing.

Wind Motor/288

Until now, propeller systems have been the most conventional way to harness wind power, despite several basic limits to the efficiency of these devices. Propellers do not have enough surface area to be effective at low wind velocities, and at high wind velocities they must be "feathered" to prevent self destruction. This new Wind Motor does not have the inherent small surface and high speed limitations of propeller systems. Its vane surfaces cover more than 86% of the "window area" at all times. Each vane is continually rotated so it is always positioned at the best angle for maximum energy from the wind. The Wind Motor can produce the same power as a conventional propeller with three-fourths of the swept volume, and one-tenth the axial speed. The drastic reduction in rotary speed is a breakthrough in wind energy conversion efficiency. The Wind Motor has a vertical axis and wil produce more horsepower per cubic meters (cubic foot) than any known wind device. It is light weight, suitable for use on top of existing buildings, towers and other structures, and it has a simple control to adjust for changes in wind direction. It has no complex parts, no expensive components, no propellers, no exotic aerodynamics, no critical dynamic balancing, no turning the entire mechanism to follow wind shifts, and it will be running when there is not enough wind to turn other wind devices. A folding version of the Wind Motor has been designed for re-charging the batteries of

Le Go Ped – Une troisième roue a moteur pour la bicyclette/288

Le Go Ped transforme une bicyclette ordinaire en cyclomoteur sans pourtant lui causer les problèmes de direction, de vibrations, de saleté et d'usure que cette conversion entraîne généralement. Le Go Ped, qui pèse 11.25 kg (25 lbs.), pousse la bicyclette et le cycliste au moyen de sa propre roue. Il a un débrayage automatique et un moteur à essence de 35 cc et de 2 HP qui peut aller jusqu'à 50 km/h (30 mph). Les tringles de raccordement permettent des virages sans heurts et une avance sans cahots. Ces qualités sont fort appréciées des cyclistes. On n'a besoin que de quelques secondes pour transformer la bicyclette et aucun outil n'est nécessaire. Grâce à une boucle de sûreté, il est possible de cadenasser l'appareil pour prévenir le vol. Le Go Ped a certains avantages sur le cyclomoteur: Il monte plus facilement les côtes; le choix des démultiplicateurs de vitesse de la bicyclette reste inchangé; la position plus haute du cycliste lui permet de mieux voir et d'être mieux vu au milieu de la circulation; il est possible de mettre la roue du Go Ped en neutre pour pédaler sans l'aide du moteur; l'appareil coûte moins cher si on a déjà une bicyclette; et on ne sent pas les vibrations du moteur. Il existe deux modèles différents selon qu'il s'agit de motoriser une bicyclette équipée de frein à contrepédalage ou de freins au guidon. Aucun outil n'est nécessaire pour débrancher le Go Ped de la bicyclette. Brevet en instance disponible pour vente ferme ou fabrication sous licence.

Moteur éolien/288

Jusqu'à présent, on ne s'est guère servi que d'appareils à hélices pour capter l'énergie du vent, en dépit des limites fondamentales de ces appareils: l'hélice a une superficie trop restreinte pour donner un bon rendement lorsque la vitesse du vent est réduite, et à une vitesse élevée, il faut la dévirer pour qu'elle ne soit pas arrachée. Ce nouveau moteur éolien n'a pas la superficie restreinte et les limites de vitesse des systèmes à hélices. La superficie de ses pales est de plus de 86% de la superficie possible en tout temps. Chaque pale est constamment en mouvement si bien qu'elle se présente toujours sous le meilleur angle possible pour obtenir l'énergie maximale du vent. Ce moteur éolien peut extraire la même quantité d'énergie qu'une hélice, avec seulement 75% du volume balayé et à 10% seulement de sa vitesse axiale. Cette réduction considérable de la vitesse de rotation est une découverte sensationnelle en ce qui concerne le rendement de la transformation énergétique du vent. Le moteur éolien a un axe vertical et produit plus d'énergie par mètre cube que tous les autres procédés connus d'extraction de l'énergie éolienne. Il est léger et peut être installé sur le toit d'immeubles déjà construits, en haut de tours et d'autres structures. Un simple réglage permet d'adapter l'appareil aux changements de direction du vent. Il ne comporte ni pièces compliquées, ni composants coûteux, ni hélices; il ne dépend ni de concepts aérodynamiques avancés, ni d'un équilibre dynamique critique, ni de dispositifs complexes pour tourner le moteur tout entier et lui faire suivre le vent. Il continue à fonctionner

Electric Automobiles while parked. A hand crank serves to raise or lower the entire mechanism from inside the vehicle. Military applications are numerous. With a diameter of about 1.2 m (4 feet), it will have a covered height of less than 15 cm (6 inches) while travelling, which unfolds to over 1.2 m (4 feet) above the car roof when parked. Only the central shaft of the Wind Motor and a crank mechanism are inside the car. Since automobiles are seldom driven more than two hours each day, it is possible that charging by wind will not only extend the vehicle range but also reduce weight by making fewer batteries necessary. Marine applications of the Wind Motor are also being investigated for the use of wind energy to propel boats of all sizes. Note that the Wind Motor will always face the wind, regardless of which way the boat is headed. Since the Wind Motor is really a fluid motor, it is anticipated that it might be used for pumping water. Consider the possibilities of a wind motor turning a water motor on a boat or barge or ocean going cargo vessels! Patent pending. Available for sale or licensing.

même quand le vent n'est pas assez fort pour faire tourner les autres appareils éoliens. Un modèle pliant du moteur éolien a été créé pour recharger les batteries d'automobiles électriques en stationnement. Une manivelle permet de lever ou de baisser le tout sans même sortir de la voiture. Le moteur éolien peut servir à une multitude d'utilisations militaires. Le modèle pliant a un diamètre d'environ 1.2 m (4 pieds) et sa hauteur pliée est de moins de 15 cm (6 pouces). Déplié, il a une hauteur de plus de 1.2 m (4 pieds) au-dessus du toit de la voiture parquée. Seuls l'axe central du moteur éolien et le mécanisme de la manivelle se trouvent à l'intérieur du véhicule. Comme il est rare qu'on se serve d'une voiture pendant plus de deux heures par jour, il est fort possible que la recharge éolienne puisse non seulement augmenter la distance que peut parcourir une voiture électrique, mais qu'elle permette aussi de réduire le nombre de batteries nécessaires et donc de diminuer la masse totale. Des recherches portent également sur l'emploi du moteur éolien en mer pour la propulsion de navires de toutes sortes. Il faut bien remarquer que le moteur éolien fait toujours face au vent, quelle que soit la direction du navire. Comme le moteur éolien est en fait un moteur à fluide, on s'attend à ce qu'il serve au pompage de l'eau. On imagine l'importance d'un moteur éolien qui peut servir à actionner un moteur à eau sur un bateau, sur un chaland ou sur un cargo en mer! Brevet en instance. Disponible pour la vente ferme ou pour la fabrication sous licence.

Rotary Lawn Mower/288

The Nolan Rotary Lawn Mower offers improved safety from flying objects thrown by the blade. It has no external openings, and a deflector in the catcher causes all objects thrown by the blade to be safely contained in the closed grass catcher. The catcher is located over the three wheel carriage, sharing the central area with the engine. This makes the unit easy to push and manoeuver whether empty or full, and the vibration from the engine packs the grass in the catcher, greatly increasing the catcher capacity. The catcher is made of aluminum or fiberglass with no overhang, making it easy to maneuver closely around bushes, trees or buildings. The mower can be spun around in a small circle, because of the three wheel suspension system. Patent available for sale or licensing.

Tondeuse rotative/288

La tondeuse rotative Nolan offre une bonne protection contre le danger que peuvent causer les objets projetés par la lame. Cette tondeuse n'a aucune ouverture latérale: un déflecteur force tous les objets lancés par la lame à terminer leur course dans le panier fermé. Ce panier se trouve sur le châssis à trois roues où il prend place avec le moteur. Ceci rend plus facile de pousser et de manoeuvrer la tondeuse, qu'elle soit vide ou pleine, et les vibrations du moteur tassent l'herbe dans le panier et augmentent de beaucoup sa capacité. Le panier est construit en aluminium ou en fibre de verre et ne dépasse pas sur les côtés, ce qui facilite la manoeuvre autour des buissons, des arbres et des bâtiments. La tondeuse a un rayon de braquage très court grâce au dispositif de suspension à trois roues. Brevet en instance disponible pour la vente ferme ou pour la fabrication sous licence.

Seedling Plant Protector/Transplant Pot/288

Three pieces – a flower pot, with a watering tube and a disc bottom provide the protection of an incubator for seedlings while it houses a watering tube that injects water directly to the plant without removing the protective cover. The plastic cap, in an upside down position, uses the tube to secure the cap to the soil and creates an ideal humid atmosphere for the seedling. With the disc removed, the pot can be used as a protective collar around individual plants against small rodents, snails and wind chill. When the seedling is strong enough to emerge, it is

Protecteur de plants et pot de repiquage/288

Cet ensemble comprend trois composants: un pot à fleurs, un tuyau d'arrosage et un fond en forme de disque. Lorsque ces trois pièces sont connectées, on a une sorte de miniserre qui protège le plant tout en permettant l'arrosage direct. Le disque de matière plastique retient le tuyau et crée une atmosphère humide idéale pour le jeune plant. En enlevant le disque, le pot peut servir à protéger les plants contre les petits rongeurs, les escargots et les coups de froid. Une fois que le plant est assez fort, on le repique dans le pot de repiquage à fond mobile. Quand le plant a assez grandi pour être transplanté de nouveau, on pousse le fond vers

planted into the loose bottom transplanting pot. When the plant's growth demands its transplant into a larger pot, the removable bottom, pressed upward, frees the plant and rootball intact for transfer into the next size transplant pot. And so on. Roots and foliage escape the usual mangling and, most important, the plant's chance for healthy survival is greatly enhanced. U.S. Patent No. 3,373,525. Available for sale or licensing.

Electric Gate/288

This gate has an effective, tamper proof self closure, which may be powered by A.C. or D.C. (for remote areas) actuation via radio control, key or card systems. It has a clutch driven gear (for safety) and a great tolerance for misalignment (which means lower tooling costs and less frequent maintenance). It is designed for mounting on a cement pier with leveling anchor bolts. The Electric Gate is ideal for all sorts of fenced areas, including lands where lane gates can be made operable by remote controls, to guide or control animal movements in the fields or yards. Also adaptable for traffic control in and around plant parking or shipping areas. When the opener is activated, the gate is slowly drawn back from the locking bar, releasing the gate. In closing, the gate swings shut, and then slips behind the metal bar, prohibiting the gate from being opened by swinging. Patentable features available for sale or licensing.

Lombardo Weeder/288

A tool to pull weeds out by the roots, can be equipped with a long or short handle and is designed to be produced of heavy gauge tempered steel in three designs. It can be used as a hoe and chopper with its sharp edge. Its tines plant and cultivate. Its tapering shape puts the mass of the tool behind the cutting edge, making each stroke dig deeper or cut better and with less effort. Rights available for sale or licensing.

Lawn Edger Fan/288

The Lawn Edger Fan is a simple and inexpensibe device that is attached to a lawn edger to blow the cuttings and dirt from the sidewalk after the edging operation is finished. The blower fan has soft rubber fabric blades and a slip clutch to prevent accidents. The blade can be stopped with the bare hand, but still provides sufficient power to thoroughly blow the sidewalk clean – or to round up leaves

le haut pour faire monter la plante tout entière sans toucher à ses racines et on la transplante dans un pot plus grand, et ceci aussi souvent que c'est nécessaire. Les racines et les feuilles ne sont pas abïmées comme c'est le cas normalement et le plant a de bien meilleures chances de survivre. Brevet américain nº 3,373,525 disponible pour la vente ferme ou pour la fabrication sous licence.

Barrière électrique/288

Cette barrière a un système de fermeture automatique efficace et qui ne peut pas être forcé. Il peut employer le courant alternatif ou le courant continu (dans les endroits éloignés du secteur) pour un fonctionnement par ondes hertziennes ou au moyen d'une clef ou d'un système de cartes. Ce dispositif comporte un engrenage à embrayage pour plus de sûreté et il tolère de grandes différences d'alignement (ce qui réduit les dépenses d'outillage et d'entretien). La barrière électrique est conçue pour être montée sur un pilier de ciment au moyen de boulons d'ancrage compensateurs. La barrière électrique est idéale pour toutes sortes d'enceintes, y compris les domaines où l'on veut pouvoir commander à distance l'ouverture et la fermeture des barrières de routes, ou guider ou commander le mouvement du bétail d'un champ à un autre, ou d'un parc à un autre. On peut aussi l'adapter au contrôle de la circulation dans les parkings ou dans les parcs d'expédition. Lorsqu'on fait fonctionner le mécanisme d'ouverture, la barrière est lentement retirée de la barre de blocage dont elle finit par se dégager. Pour la fermeture, la barrière retourne à la position de fermeture et se glisse de nouveau derrière la barre de métal de sorte qu'elle ne peut plus s'ouvrir quand on la pousse. Les caractéristiques brevetables de ces dispositifs sont disponibles pour la vente ferme ou pour la fabrication sous licence.

Sarcloir Lombardo/288

Cet outil de jardinage permet d'extirper les racines de mauvaises herbes et peut être muni d'un manche long ou court. Il est conçu pour être fabriqué en trois modèles d'acier trempé à très haute résistance. Son côté aiguisé peut servir de binette ou de serfouette et ses dents permettent de planter et d'ameublir la terre. Sa forme effilée place la masse de l'outil derrière le bord coupant, creuse plus profondément et coupe mieux et sans effort. Les droits sont disponibles pour la vente ferme ou pour la fabrication sous licence.

Ventilateur de tranche-gazon/288

Ce ventilateur est un dispositif simple et peu coûteux que l'on attache au tranche-gazon pour faire disparaître les brins d'herbe et la terre qui se trouvent sur le trottoir une fois le travail fini. Le ventilateur est muni d'ailettes de caoutchouc très flexible et d'un embrayage à friction pour empêcher les accidents. On peut d'ailleurs arrêter les ailettes du ventilateur avec les doigts nus sans se blesser, bien qu'elles soient assez puissantes pour nettoyer toute la largeur du

on the lawn during fall clean-up. Patent pending. Available for sale or licensing.

Peace Officer Handbag/288

It has a soft stylish look that conceals a handgun, bullets, handcuffs, etc., without external evidence. It features a shoulder strap which goes around and under the bag for strength. It carries a removable liner that may be introduced into a different bag which also has a flap that covers the contents from view while affording ready access to the concealed weapon. This handbag was designed by a policeman who had 13 years experience and awareness of the need for plain clothes equipment. U.S. Patent No. 3,347,299. Available for sale or licensing.

Combination Carpenter Saw/288

This has a unique handle that embodies several other tools without altering the fundamental purpose or efficiency of the saw. It encompasses a frame square, large level, small level, tri square, T bevel gauge, 75 cm (30") rule and saw. This all-in-one product is great for the do-it-yourselfer by reducing the number of tools he has to handle or carry. U.S. Patent 3,319,337. Available for sale or licensing.

Hot Dog Bun Shaper/288

This new disposable hot dog bun pan forms cavities in the buns to permit the hot dog to be cradled in the bun. It is an ideal subject for a new convenience food – four hot dog buns in a disposable aluminum pan – that can be taken from the freezer to the oven to give the consumer a hot dog bun that is superior and fresher than packaged buns. The pan is equally at home in the conventional oven and the microwave oven. U.S. Patent available for sale or licensing.

Easy Vision Secured Piano & Organ Music Rack/288

This device moves a music rack 17.5 cm (seven inches) closer to the player at the top and 7.5 cm (three inches) closer at the bottom, resulting in a more equal distance overall from the center of the music sheet to the eye. The auxiliary music rack also uses a set of transparent hold-down fingers which are placed across the music sheet at an angle to hold the sheet and facilitate page turning. Patent pending. Available for sale or licensing.

Paint Brush Holder/Wiper/288

The device provides a secure rest for a wet paint brush because of the nearly vertical position of the brush, and

trottoir ou permettre de rassembler les feuilles mortes en automne. Brevet en instance. Disponible pour la vente ferme ou pour la fabrication sous licence.

Sac à main d'inspectrice de police/288

Ce sac à main d'allure élégante cache un pistolet, des balles, des menottes, etc., sans rien laisser deviner. La courroie passe sous le sac pour plus de solidité. L'intérieur contient une doublure amovible qui peut être enlevée et glissée dans un autre type de sac à main muni d'un rabat qui couvre le contenu mais permet d'atteindre facilement l'arme cachée. Ce sac à main a été conçu par une femme agent de police après treize ans d'expérience des besoins de l'inspectrice de police. Brevet américain nº 3,347,299 disponible pour la vente ferme ou pour la fabrication sous licence.

Scie à tout faire du bricoleur/288

Cette scie a une poignée remarquable qui remplace plusieurs autres outils, sans pour cela nuire à l'emploi de base ou au rendement de la scie. Cet outil remplace une équerre de charpentier, un niveau long, un niveau court, une équerre de précision, une fausse équerre, une règle graduée de 75 cm (30") et une scie. Cet outil multiple est idéal pour le bricoleur, qui n'a plus besoin d'utiliser ou de transporter autant d'outils. Brevet américain nº 3,319,337 disponible pour la vente ferme ou pour la fabrication sous licence.

Moule à petits pains à hot dogs/288

Ce nouveau moule jetable laisse un creux dans le petit pain pour retenir la saucisse. Il s'agit ici d'une idée merveilleuse pour un nouveau genre de nourriture facile à préparer: quatre petits pains à hot dogs dans un moule de papier d'aluminium qu'il suffit d'enlever du congélateur et de mettre au four pour obtenir un petit pain bien frais et de meilleure qualité que ceux qu'on achète tout cuits. Le moule s'accommode tout aussi bien du four à ondes ultra-courtes que du four ordinaire. Brevet américain disponible pour la vente ferme ou pour la fabrication sous licence.

Porte-cahier Easy Vision pour piano ou orgue/288

Ce dispositif rapproche la musique en feuille ou en cahier des yeux du pianiste ou de l'organiste en la faisant avancer de 17.5 cm (7") en haut et de 7.5 cm (3") en bas. Le résultat en est que la distance entre l'oeil et les divers niveaux de la musique reste à peu près la même. Le porte-cahier est muni d'un jeu de pinces transparentes qui tiennent la feuille de musique et permettent de tourner plus facilement les pages. Brevet en instance. Disponible pour la vente ferme ou pour la fabrication sous licence.

Porte-pinceau/288

Ce dispositif fournit un point solide sur lequel le peintre peut poser ou essuyer un pinceau couvert de peinture.

the handle stays clean and dry at all times. The paint drains back into the can. No paint drips on the sides or rims of the can. The holder will withstand any downward wiping pressure without tipping the container. Also, the brush wiper serves as a firm and very secure handle for the paint can – as strong as if it were welded on. U.S. Patent No. 3,948,413. Available for sale or licensing.

Trudi Thimble/288

This new improved thimble eliminates the discomfort of persons with long nails using a thimble for sewing. The thimble has a resilient post in the middle which accommodates the long fingernail, so it is actually the flesh at the end of the finger that pushes the needle and not the fingernail. The vibrant colored wool felt lining in the thimble eliminates unpleasant moisture buildup, and the concave dimpled end prevents needle slippage. The lining allows abnormally shaped fingers, as well as arthritics to sew in greater comfort. The entire unit is washable. U.S. Patent No. 4,102,480. Available for sale or licensing.

Casa Cama Pack/288

Designed as a light weight, compact, portable individual pack frame for backpackers and recreational and professional users. It is a lightweight aluminum tube pack frame with attached folding cot, aluminum rod tent supports, nylon tent, nylon tent ropes, mosquito net, shoulder harness and pack. It provides shelter from the elements and a sleeping cot, supported off the ground, to protect the user and provide a dry and comfortable support for an air mattress or sleeping bag. The tent covers the entire unit and access to the pack is under cover. Patent pending. Available for sale or licensing.

Shopping Cart Directory/288

A directory listing the section number where the various foodstuffs could be found, attached to each cart in the position of a child back rest. Makes a sales impression while giving guidance to shoppers. Reduces confusion and is designed for simple, low cost fabrication and for promotional sales. Vacuum forming permits runing 50-500 units economically enough to permit changes in the copy and rerunning it from time to time. U.S. patent. Available for sale or licensing.

The Flasher/288

"The Flasher" is a trademarked safety light which will greatly increase the nighttime visibility of the bicycle rider to the motorist, even at a distance. It is completely weather-

Comme le pinceau est pour ainsi dire à la verticale, son manche reste propre et sec en tout temps et la peinture s'égoutte directement dans la boîte sans jamais couler sur les côtés ou sur le bord. Ce porte-pinceau peut supporter n'importe quelle force vers le bas sans faire culbuter la boîte. De plus, le porte-pinceau devient pour la boîte une poignée aussi solide que si elle était soudée. Brevet américain nº 3,948,413 disponible pour la vente ferme ou pour la fabrication sous licence.

Dé à coudre/288

Ce dé modernisé met fin aux ennuis des couturières qui veulent garder leurs ongles longs. Ce dé a une longue pièce élastique au fond qui permet à l'ongle de passer à côté, de telle sorte que c'est le doigt lui-même qui pousse l'aiguille et non pas l'ongle. De plus, l'intérieur du dé est recouvert d'une doublure de feutre de laine rouge qui empêche le dé de devenir humide, et la forme concave du bout du dé empêche l'aiguille de glisser. La doublure et le bouton central du fond permettent également aux arthritiques et autres personnes aux doigts déformés de coudre plus confortablement. Le dé est lavable. Brevet américain nº 4,102,480 disponible pour la vente ferme ou pour la fabrication sous licence.

Havresac Casa Cama/288

Ce havresac léger et compact destiné aux amateurs comme aux professionnels se transforme en lit pliant à cadre d'aluminium tubulaire, avec supports de tente d'aluminium, tente de nylon, cordages de nylon et moustiquaire. Il protège contre les éléments et le lit surélevé fournit un appui sec et confortable pour un matelas pneumatique ou un sac de couchage. La tente couvre le tout. Brevet en instance. Disponible pour la vente ferme ou pour la fabrication sous licence.

Répertoire pour chariot d'épicerie/288

Cette liste des rayons donnant les numéros de section où on peut trouver certains articles s'installe sur chaque chariot dans la position du dossier d'enfant et aide la cliente tout en faisant bel effet. Il y a moins de confusion dans le magasin et la fabrication simple et bon marché de cet article permet de s'en servir dans des buts promotionnels. En effet, le formage à vide donne le moyen d'offrir des séries de 50 à 500 unités à un prix assez raisonnable pour rendre possible des changements de copie de temps à autre. Brevet américain disponible pour la vente ferme ou pour la fabrication sous licence.

The Flasher/288

The Flasher est le nom de marque déposée d'un clignotant de sécurité qui améliorera de beaucoup les chances qu'a un cycliste d'être vu la nuit par les automobilistes, et ceci

proof. Random flickering lights inside a fresnellensed plastic weatherproof housing are mounted behind and above the rider's head. Mounted to the bicycle by one of the strongest methods of bracing known – the triangle. It has a replaceable breakaway link which, upon unusual impact, separates the entire upper assemblage so as not to injure the rider. It can operate for 48 hours without recharging using four "D" batteries. When not needed it may be plugged into a house circuit for recharging. Mounted for enough back so as not to hinder mounting and dismounting, or can be attached to a bicycle carrier. An additional option incorporates the standard headlight and bicycle generator into its system. The Deluxe Model incorporates directional signal lights and tail light controllable from a mini-control panel mounted on the handle bars. Panel housing provides for back-up battery power storage. In additiona, indicator lights on the mini panel tell the rider the status of the system without having to take his eyes off the road. Patent pending. Available for sale or licensing.

même de loin. Ce feu est produit par le clignotement au hasard d'ampoules enfermées dans un carter étanche muni d'une lentille à échelons et qui est monté derrière le cycliste, au-dessus du niveau de sa tête. Le tout repose sur un support triangulaire, car le triangle est une des meilleures méthodes connues de support. The Flasher a une tige d'assemblage remplaçable qui, en cas de choc anormal, se brise de façon à séparer l'assemblage supérieur et éviter ainsi de blesser le cycliste. Le clignotant peut fonctionner pendant 48 heures sans recharge sur ses quatre piles D. Quand on ne se sert pas de l'appareil, on peut l'enficher dans une prise de courant ordinaire pour le recharger. Le feu de sécurité est monté aussi loin que possible vers l'arrière pour ne pas gêner le cycliste qui monte à bicyclette ou en descend. On peut également l'attacher au porte-bagages. Il est aussi possible de brancher le clignotant sur la dynamo en même temps que le phare. Le modèle de luxe du Flasher comprend également des clignotants de direction, ainsi qu'un feu rouge arrière, qui peuvent tous être commandés à un petit panneau installé sur le guidon et dont le carter contient aussi une réserve de piles. De plus, le panneau est muni de témoins lumineux qui donnent toutes les indications nécessaires au cycliste sans qu'il ait besoin de perdre la route de vue. Brevet en instance. Disponible pour la vente ferme ou pour la fabrication sous licence.

Bicycle Pole Mounted Light/288

The light is mounted on the pole high above the head of the rider. The light and pole are made of light weight fiberglass and attached to the bicycle rear axle nut. It is demountable by unplugging and pulling apart like a fishing rod which it closely resembles. It has a high intensity lamp which is fired by a capacitor discharge circuit powered by a 9 volt battery. The battery will last for over 12 hours of continuous use. The lamp is housed in a 360 degree fresnel housing that accentuates the flash by concentrating the light into a bright vertical streak. Rights available for sale or licensing.

Feu de position surélevé pour bicyclette/288

Ce feu est monté sur une tige qui le place bien au-dessus de la tête du cycliste. Le feu et la tige sont faits de fibre de verre très légère et sont attachés à l'écrou de l'essieu arrière de la bicyclette. Il est facile de le démonter en le débranchant et en séparant les diverses sections de la tige comme une canne à pêche à laquelle elle ressemble beaucoup. Le feu est une lampe de grande puissance qui est allumée par un circuit de décharge à condensateur alimenté par une pile de 9 volts qui est suffisante pour alimenter le feu pendant plus de douze heures de file. L'ampoule se trouve dans un carter à lentille à échelons de 360° qui augmente la lumière en la concentrant en un filet vertical très puissant. Droits disponibles pour la vente ferme ou pour la fabrication sous licence.

Collapsible Swim Fins/288

This new Collapsible Swim Fin offers a relatively light weight and portable alternate, one that still provides the proper propulsion in the water. This Collapsible Swim Fin is of great benefit to those who must frequently travel and who would not otherwise carry swim fins because of their size and bulk. The frame includes two semi-rigid hinged frame members constructed of light weight material that can be folded into a convenient slim tube for easy packing. Patent pending. Available for sale or licensing.

Chaussures pliantes pour hommes-grenouilles/288

Ces chaussures pliantes sont assez légères et faciles à transporter tout en offrant une bonne propulsion dans l'eau. Elles seront bien acceptées par les gens qui doivent souvent voyager mais qui ne peuvent pas transporter avec eux des chaussures-nageoires à cause de leur poids et de leur encombrement. Le cadre est fait de deux parties semi-rigides fabriquées de tissu léger et reliées par une charnière et que l'on peut ranger dans un tube mince facile à empaqueter. Brevet en instance. Disponible pour la vente ferme ou pour la fabrication sous licence.

Astrozoomer/288

With its wings folded down, the Astrozoomer climbs the kite string propelled by the force of the wind, until it hits

L'Astrozoomer/288

Les ailes repliées, l'Astrozoomer remonte la corde d'un cerf-volant en n'utilisant que la force du vent et ne s'arrête que

the upper clip stop. Its wings snap up and the zoomer zooms down the length of the line in a thrilling high speed dive. At the bottom, it strikes a release which drops the wings to repeat the cycle. The Astrozoomer performs its thrilling aerobatics continuously and automatically – its only propellant is the wind. With long strings on two or more kites, Astrozoomer races are very exciting. By proper adjustment of the elevators, the Astrozoomer can be made to barrel roll or fly down with one wing low. Vertical dives and recovery, skimming low over trees, etc., are a few of the exciting stunts possible. Glider and parachute launching are two other operations possible with this toy. A short thread or string tether hooks the glider or parachute to the Astrozoomer on its upward flight. When the wing folds back into a dive position, the glider or parachute is launched automatically to drift down in a long, thrilling flight. Parachute-drop contests for accuracy, just like the Sky Divers, are also great fun! Sky Ball is still another great game that is played by carrying aloft a light plastic-foam ball (baseball size) on the Astrozoomer and launching it in the same way as a parachute. It is a real trick and takes skill and practice to catch it "on the fly" as it floats down wind as it drops. When an Astrozoomer is flown on a line with a special design (now available) of SPACE SHIP KITE, we have the world's first toy space shuttle system. U.S. Patents 3,596,857 and 3,752,424. Available for sale or licensing.

lorsqu'il se heurte à la butée supérieure. Ses ailes s'ouvrent alors et il redescend sur toute la longueur de la corde avec une rapidité incroyable. En bas, il se heurte à une autre butée qui fait replier les ailes et le cycle recommence. L'Astrozoomer continue à faire ses acrobaties aériennes automatiquement et sans arrêt et sa seule source d'énergie est le vent. En utilisant plusieurs cerfs-volants munis de longues cordes, on peut procéder à des courses palpitantes. En réglant convenablement le gouvernail, on peut faire faire le tonneau à l'Astrozoomer, ou bien on peut le faire descendre sur l'aile. Il est aussi possible de lui faire faire des descentes et des remontées à la verticale, du vol au ras des cîmes, etc. De plus, on peut lancer un planeur ou un parachute en l'attachant à l'Astrozoomer au moyen d'un fil court quand il est prêt à remonter. Lorsque les ailes se replient pour la descente, le planeur ou le parachute est automatiquement lâché et commence à descendre lentement dans un vol électrisant. On peut également procéder à des concours d'atterrissages de précision pour les parachutes, tout comme le font les parachutistes de sport. Un autre jeu fort intéressant consiste à faire transporter à l'Astrozoomer une balle de plastique léger de la grosseur d'un ballon de baseball et de la faire tomber du ciel tout comme un parachute. Il faut beaucoup de pratique et d'adresse pour l'attraper en plein vol là où le vent la pousse. Lorsque l'Astrozoomer est installé sur une corde spéciale (disponible dès maintenant) du SPACESHIP KITE, on obtient le premier jeu de navette de l'espace au monde. Brevets américains nos 3,596,857 et 3,752,424 disponibles pour la vente ferme ou pour la fabrication sous licence.

Bicycle Drinking Apparatus/288

Replacement of fluids and electrolytes during physical exercise such as olympic races, is medically recognized. Rather than loose control of the bike or stop for a drink, the cyclist has his beverage attached to the bike and by the use of a retractable straw (sanitary tube) can take a few sips while continuing to ride. Also of convenience to a patient confined to a wheelchair when source of beverage is inaccessible. U.S. Patent 4,095,812. Available for sale or licensing.

Dispositif permettant au coureur cycliste de boire/288

Le remplacement des fluides et des électrolytes au cours d'exercices physiques violents, tels que les courses olympiques, est une nécessité reconnue de la médecine sportive. Pour ne pas risquer perdre l'équilibre et pour ne pas avoir à descendre pour boire, le cycliste n'a qu'à attacher bien solidement un récipient contenant sa boisson favorite au cadre de sa bicyclette et n'a plus alors qu'à aspirer quelques gorgées au moyen d'un tube escamotable sans avoir à ralentir sa course. Ce dispositif est aussi très commode pour un invalide condamné à la voiture d'infirme lorsqu'il ne peut pas se servir d'autres récipients. Brevet américain no 4,095,812 disponible pour la vente ferme ou pour la fabrication sous licence.

RÉSUMÉS OF THE FOLLOWING CANADIAN PATENTS AND UNITED STATES PATENT APPLICATIONS AVAILABLE FOR LICENSING ARE PUBLISHED IN THE LANGUAGE OF APPLICATION, ENGLISH OR FRENCH.

DES RÉSUMÉS DES BREVETS CANADIENS CI-JOINTS ET DES DEMANDES DE BREVETS AMÉRICAINS POUR L'OCTROI DE LICENCES SONT PUBLIÉS DANS LA LANGUE DE LA DEMANDE DE BREVET, EN ANGLAIS OU EN FRANCAIS.

Integrated Reaction Process **1,065,607/288** **Méthode de réaction intégrée**

A process in which a substance undergoes endothermic change within a predetermined temperature range in at least one stage of the process and is subsequently subjected to a substantially higher temperature in a further stage of the process, so that effluent heat from the further stage is augmented and the supply of heat is applied partly to the generation of power, and partly to said endothermic change. Write: The Associated Portland Cement Manufacturers Limited, Portland House, Stag Place, London SW1E 5BJ, England

Preparation of a Cap Sensitive Particulate Explosive Composition Comprising Calcium Nitrate — **1,065,613/288** — **Préparation d'un explosif pour amorces en granules, à base de nitrate de calcium**

In preparing an explosive composition whose oxidizing components are a mixture of ammonium and calcium nitrate, the nitrate components are heated to temperatures where anhydrous double salts are formed together with some liquid phase. By subsequent cooling of the mixture under sustained mechanical agitation and the addition of a liquid fuel, a dry, free-flowing, cap sensitive particulate explosive composition is formed. Write: Dyno Industrier A.S., Tollbugaten 22, Oslo 1, Norway

Process for Fabricating Articles of Tungsten-nickel-iron Alloy — **1,065,653/288** — **Méthode de fabrication d'articles en alliage tungstène-nickel-fer**

A high density W-Ni-Fe alloy of composition 85-96% by weight W and the remainder Ni and Fe in a wt. ratio of 5:5-8:2 having enhanced mechanical properties is prepared by compacting the mixed powders, sintering the compact in reducing atmosphere to near theoretical density followed by further sintering at a temperature where a liquid phase is present, vacuum annealing, and cold working to achieve high uniform hardness. The alloy of this invention is useful as an armor penetrator. Write: United States Department of Energy, Washington, D.C. 20545, U.S.A.

Safety Device for Firearms — **1,065,656/288** — **Dispositif de sûreté pour armes à feu**

For insertion in a firearm to prevent discharge thereof, a plastic rod having longitudinal ribs fits in the barrel and extends into one of the cylinder chambers of the weapon. The outer end of the rod is recessed from the muzzle end of the barrel and is tapped and threaded. A key threads into the rod and may be pulled outwardly to remove the rod from the gun barrel. Write: Susan M. Knopp, 623 North 66th Street, Box 5346, Lincoln, Nebraska 68505, U.S.A.

Halogenated Photopolymerizable Adhesives Containing a Halogenated Polymer — **1,065,667/288** — **Adhésifs photopolymérisables contenant un polymère halogéné**

Halogenated photopolymerizable adhesive, which comprises: a) 20 to 70% by weight of at least one halogenated polymer, b) 5 to 30% by weight of at least one organic monomer compound containing at least two acrylic or methacrylic acid radicals and containing from 0 to 65% by weight of active halogen atoms; c) 20 to 70% by weight of at least one organic monomer compound containing an acrylic or methacrylic acid radical and containing from 0 to about 65% by weight of active halogen atoms; d) about 1 to about 25% by weight of a photo-initiator system. Write: U C B S.A., 4 Chaussée de Charleroi, Saint-Gilles-lez, Bruxelles, Belgique

Press n'seal Berry Basket — **1,065,779/288** — **Panier pour petits fruits, à couvercle posé à pression**

This invention endeavers to mitigate the problem of customer sampling of fruit by the introduction of a two part self locking basket container; the cap or basket cover having a series of arrow like teeth projecting at even spaced intervals around the edge, at the base of the teeth a ledge projecting at right angles to the wall of the cap to stabilize and add substance to the teeth, the lower basket container having a smooth finished rim the said rim to fit snuggly inside the teeth of the cap so that the teeth slide smoothly down the outer wall of the rim on the basket container to enter slots provided for them in a matching ledge on the basket container, the slots are smaller longitudinally than the arrow head's of the teeth so that the head is constricted as it is forced through the slot aperture expanding back to size as it exits, the cap is thus locked to the basket container and the contents are secured. To open the basket container a tear strip is incorporated in the cap, the tear strip must be cut free in order to gain access to the contents. Write: Samual A. Morris, 106 Sapper Street, New Westminster, British Columbia V3L 3Y5, Canada

Process for Preparing a Foamed Body — **1,065,901/288** — **Méthode de préparation d'un corps mousseux**

The invention provides a process for preparing a foamed body comprising a step of mixing the four components of: an aqueous solution having a pH of up to 2.0 and containing at least one of acids and water-soluble acidic phosphates, at least one of cement materials and anhydrous alkali metal silicates, a metal blowing agent, and a foaming stabilizer to obtain a pasty mixture, the acids having an electric dissociation constant (pKa) of up to 4.0 at 25°C, the foaming stabilizer being at least one member selected from the group consisting of activated carbon, zeolite, silica gel, carbon black, talc and mica. Write: Shikoku Kaken Kogyo Kabushiki Kaisha, 6/51, 1-chome, Nakahozumi, Ibaragishi, Osaka-fu, Japan

Opening Roof for Vehicles — **1,065,921/288** — **Toit ouvrant pour voiture automobile**

A folding roof assembly for a vehicle having a roof with an opening therein, the assembly comprising a support member extending transversely of the opening and having at its ends guides slidable in guide members mounted at opposite sides of the opening a cover plate disposed above the support member, a flexible cover attached at one end to the cover plate and at the other end to the roof at one end of the opening, two operating devices adjacent the ends of the support member connected between the latter and the cover plate, a turnable handle mounted on the support member at a position between said devices, and two flexible drive means such as belt operatively connecting the handle to the respective devices, the arrangement being that the support member is movable relative to the opening between a position in which the cover is extended and closes the opening, a position in which the cover is folded up and the roof is open and intermediate positions in which the roof is partially open, and the operating devices are operable by the handle through the flexible drive means to lower the cover plate relative to the support member so that its ends engage the portions of the roof at opposite sides of the opening thereby to lock the assembly in position, and to raise the cover plate thereby to release the assembly; such movement of the cover plate being in directions solely perpendicular to the general plane of the plate. The operating devices each comprises two relatively turnable parts with co-operating cam means. The guides are adjustable relative to the support member. Write: Edward Rose (Birmingham) Limited, Pelsall Road, Brownhills, County of Stafford, England, U.K.

Balises incandescentes alimentées par un fil de garde — **1,065,959/288** — **Ground Wire Fed Incandescent Buoys**

La présente invention a trait à l'alimentation de balises à lampes incandescentes par l'énergie extraite par couplage capacitif d'une section isolée du fil de garde d'une ligne de transport d'énergie. Le système d'alimentation comporte un dispositif de transformation de l'énergie du fil de garde en un courant alternatif qui alimente au moins une des lampes incandescentes et un circuit de régulation monté en dérivation sur le dispositif de transformation de sorte à contrôler le débit du courant à travers les lampes. La régulation du courant se fait à l'aide d'un circuit de commutation dont le temps de commutation est réglé à l'aide d'un circuit de contrôle. En outre, un circuit intégrateur gouverne le temps de commutation du circuit de commutation alors qu'un circuit comparateur assure la formation d'une forme d'ondes symétriques à l'entrée de ce circuit de commutation, les circuits intégrateur et comparateur formant le circuit de contrôle du temps de commutation. Écrire: Hydro-Québec, 75 ouest, boulevard Dorchester, Montréal (Québec) H2Z 1A4, Canada

Procédé de production d'électricité par transit de pâte métal-électrolyte — **1,065,965/288** — **Method for Producing Electricity by the Transit of Metal-Electrolyte Paste**

L'invention est relative à un procédé de production d'électricité par voie électrochimique par oxydation d'un métal, et un générateur pour la mise en oeuvre de ce procédé. On fait circuler une pâte de grains de zinc depuis un premier réservoir jusqu'à un second réservoir où elle arrive sous forme de pâte de métal oxydé. Un courant d'air circule dans le conduit tubulaire les reliant. Le générateur comporte un diaphragme et deux électrodes. Le mélange pâteux est pompable et très stable. La pâte peut être réduite dans un électrolyseur où l'on peut recharger instantanément le générateur par apport de pâte fraîche. Un tel générateur est approprié à la traction électrique des véhicules. Écrire: Société Générale de Constructions Électriques et Mécaniques Alsthom, 38 avenue Kléber, 75784 Paris Cedex 16, France

Sonde cérébrale auto-bloquante — **1,065,969/288** — **Self-blocking Cerebral Cathet**

L'invention a pour objet une sonde cérébrale pour exploration stéréoélectroencéphalographique, destinée au traitement de l'épilepsie et autre maladies. Cette sonde comprend un long tube creux et flexible de faible diamètre, de préférence en polyéthylène de faible densité; une série d'au moins deux bagues électriquement conductrices de préférence en argent, disposées autour du tube à faible distance les unes des autres, pour capter l'activité électrique des cellules nerveuses; une série de fils conducteurs isolés disposés à l'intérieur du tube creux, chaque fil conducteur reliant une bague conductrice à un connecteur extérieur au tube creux; un stylet rétractable inséré à l'intérieur du tube creux pour assurer à ce dernier une certaine rigidité lors de l'introduction de la sonde dans le cerveau, ledit stylet étant enlevé après que la sonde ait été introduite de façon à rendre au tube creux toute sa flexibilité; et un ancrage rigide de préférence en acier inoxydable et en forme d'entonnoir, permettant de fixer solidement et rapidement le tube creux à la boîte crânienne du malade une fois que ledit tube creux a été inséré à la profondeur voulue dans le cerveau. Cette sonde est destinée à être insérée dans le cerveau du malade, à une profondeur donnée, pour capter l'activité cérébrale de ce dernier pour analyse et transmission à un récepteur qui permet de décoder et enregistrer les informations obtenues. Ce système permet avantageusement de localiser avec grande précision la zone affectée qu'il faut opérer pour guérir le malade. Écrire: Pierre-Michel Arseneault, 7936 De Janville, Charlesbourg, Québec, G1H 3W1, Canada; Gratien Bouillon, 2571 boulevard Wilfrid Laurier, Ste-Foy, Québec, G1V 2L3, Canada; Roland Picard, 20 Parc Dion, Loretteville, Québec, G2A 1R9, Canada; Gilles Tremblay, 2015 Hélène Boulé, Ste-Foy, Québec, G1V 4J3, Canada

Cinnamic Derivatives as Tobacco Additives — **1,066,040/288** — **Dérivés cinnamiques utilisés comme additifs dans le tabac**

Cinnamic derivatives, especially the methyl or ethyl esthers of cinnamyl alcohol, para-methoxycinnamyl alcohol, and para-ethoxycinnamyl alcohol, are added to tobacco to improve the flavor and aroma of the tobacco and tobacco smoke. Write: Liggett & Myers Incorporated, 4100 Roxboro Road, Durham, North Carolina, U.S.A.

Method of Isotope Separation by Chemionization — **1,066,225/288** — **Méthode de séparation des isotopes par chimi-ionisation**

A method for separating specific isotopes present in an isotopic mixture. This method may be used for any compounds having a sufficiently high electron affinity to permit negative ion formation, and is especially useful for the separation of plutonium and uranium isotopes. Write: United States Department of Energy, Washington, D.C. 20545, U.S.A.

Remote Control Systems for Electrically Operated Loads — **1,066,360/288** — **Systèmes de télécommande pour charges électriques**

A remote control system for operating electrical loads, particularly in multi-unit lodging establishments such as motels, hotels, for reducing the peak power demand. Write: Carl L. Owenby, (Jr.), 219 W. King Street, Quincy, Florida 32351, U.S.A.

Expendable Electro-Cardiograph Electrode — **1,066,366/288** — **Électrode jetable pour électrocardiographe**

An expendable electrode for electro-cardiographs comprising a thin metallic carrier member coated on the surface to be applied to the skin with an adhesive and having a plurality of metallic contact spikes projecting from the coated surface which spikes are devised to penetrate into the skin. Write: Salve S.A., P.O. Box 274, CH-1211 Geneva 6, Switzerland

Active Filter — **1,066,373/288** — **Filtre actif**

A construction of an active filter having the same characteristics as a predetermined passive filter is described in which the capacitors of the passive filters are replaced by a topologically equivalent first network of resistors and the inductors of the passive network are replaced by a topologically equivalent second network of resistors, the two net-works of the resistors being interconnected in a manner corresponding to the connections in the passive filter by means of negative impedance converters having conversion ratios effective to convert resistance into negative capacitances and resistance into negative inductances. Write: The Post Office, 23 Howland Street, London, W1P 6HQ, England, U.K.

Alarm Combination Lock — **1,066,387/288** — **Combinaison alarme/verrou**

This invention relates to security systems, in particular to selective analog solid state electronics which permit entry to/or exit from a secured area for authorized personal by a sequential push button operation or by coded card reading. Write: Friedemann J. Schulz, 11 Richard Street, Touraine, Quebec, J8T 1G3, Canada

Flotation Cell — **1,066,437/288** — **Cellule de flottation**

A flotation cell having at least one froth removal edge and a rotor and stator adapted to be immersed in the liquid to be flotated. Write: Outokumpu Oy, Töölönkatu 4,00100 Helsinki 10, Findland

Member for Use in Building Construction — **1,066,475/288** — **Pièce de charpente pour la construction de bâtiments**

The member comprises a strip of material having pockets in which the ends of an array of floor joists, to be embedded in concrete, are inserted. Wall sections of the strips, between the pockets, form blocking between the joists, spaced inwardly from the joist ends. Write: Gérard Rochon, 2725 rue Godard, Lac Bellevue, Comté de Ste-Sophie, Québec, Canada

Method for the Processing of Black Powder — **1,066,511/288** — **Méthode de traitement de la poudre noire**

A method of continuously processing meal black powder in order to make it suitable for use in fuses. Write: Dyno Industrier A.S., Tollbugaten 22, Oslo 1, Norway

Load Anchoring System for Flatbed — **1,066,561/288** — **Méthode de fixation d'une charge sur une plate-forme**

Systems for anchoring a load or container on a flatbed, particularly adapted to be used with existing containers without alteration, and which systems are simple and readily and safely anchor a container on a flatbed. Write: Victor Bédard, 40, rue Van Vliet, Lacolle, Québec, J0J 1J0, Canada

Oven Door Latch — **1,066,577/288** — **Loquet pour porte de four d'une cuisinière**

Disclosed is a door latch mechanism for a domestic cooking appliance of the type wherein conventional, thermal energy cooking and microwave energy cooking can be carried out. Write: Litton Industries, Inc., 360 North Crescent Drive, Beverly Hills, California 90210, U.S.A.

Vibration Isolating Surface Protector with High Traction Properties — **1,066,727/288** — **Protège-surface antivibration à haute traction**

A soft compliant substantially platelike foam cushion is bonded to a substantially rigid backing plate and the periphery of the cushion has an integrally coated compliant membrane. Write: James G. Greenstreet, 270 Fairmont Avenue, Ottawa, Ontario K1Y 1Y2, Canada

Snowshoe with Hingedly Attached Harness — **1,066,730/288** — **Raquette de neige dotée d'un harnais à charnière**

A snowshoe comprising a central, forwardly located opening for receiving the front of a wearer's foot, at least one attachment slot extending transversely across the snowshoe at the rear of the opening, and a harness having a front portion, a heel engaging portion and attachment means extending from the front portion. Write: Les Industries Provinciales Ltée, St-Damien, Comté de Bellechasse, Québec, Canada

Self-sharpening Ice Skate Blade — **1,066,731/288** — **Lame de patin à glace à auto-aiguisage**

An ice skate blade which maintains its sharpness in use by virtue of a thin hard case on the sides of the blade over a softer center core. Write: Mitchell D. Charneski, 25900 Mulberry Drive, Southfield, Michigan 48075, Canada

Center Lifting Device — **1,066,741/288** — **Éperon de levage**

A center lifting device for lifting and transferring rolls of material, such as paper rolls and the like, having two parts, one inside the other, which can be moved over a limited distance in relation to each other and fitted partly into the hollow in the roll of material, whereby the upper end of the inner part can be attached to a lifting device and at the lower end of the outer part there is a gripping member, which expands and contract under the effect of the moving of the said parts. Write: Oy Finnlines Ltd., Korkeavuorenkatu 32, 00130 Helsinki 13, Findland

Substance and Device for the Absorption of Catalyst Poisoning Gases out of the Ohyhydrogen Gas Mixture — **1,066,765/288** — **Substance et dispositif pour l'absorption de gaz empoisonnant les catalyseurs de mélanges gazeux oxhydriques**

A substance, a method of producing it, and a device for using the substance in the absorption of catalyst poisoning gases out of the oxyhydrogen gas mixture produced by lead-acid storage batteries. Write: Accumulatorenwerk Hoppecke Carl Zoellner & Sohn, Barbarossaplatz 2, 5000 Cologne, Germany

Concentrateur téléphonique — **1,066,794/288** — **Telephone Concentrator**

Commutation téléphonique concernant un concentrateur qui comporte, outre les éléments classiques tels que les équipements de ligne, le réseau spatial de concentration et un codeur/décodeur – échantillonneur/MIC, un réseau de brassage temporel et deux types de jonctions différents, l'un étant un joncteur complet et l'autre ne conduisant que la partie conversation d'une communication. Écrire: Société Lannionnaise D'Électronique Sle-Citerel S.A., Route de Perros-Guirec, 22304 Lannion, France

Fabrication of Ceramic Heat Pipes **1,066,964/288** **Fabrication de caloducs en céramique**

A method of forming a porous capillary layer of a metal oxide ceramic material onto a metal oxide ceramic substrate. This method finds a particular application in the fabrication of ceramic heat pipes that are made entirely of good dielectric materials and have good heat transfer characteristics with respect to the materials employed. Write: Hydro-Quebec, 75 Ouest, Dorchester, Montreal, Quebec, Canada

Conveyor-type, Hydraulic-powered, Material-spreading Apparatus **1,066,988/288** **Épandeuse à courroie et à commande hydraulique**

Apparatus comprising a material-storage hopper, a conveyor for conveying material from the hopper for spreading same and a hydraulic, power-transfer system comprising two double-acting, hydraulic cylinders in communication with and operatively connected to valves which control and direct hydraulic fluid under pressure to the hydraulic cylinders to drive the conveyor Write: Tarrant Manufacturing Company, Excelsior Avenue Extension, Saratoga Spring, New York 12866, U.S.A.

Protège-livre **1,067,045/288** **Book Cover**

Le protège-livre consiste en un étui d'un matériel transparent flexible et résistant, de forme rectangulaire avec une languette en forme d'un demi-cercle qui sert de fermeture. Write: Fernande Bolduc-Robillard, 91 rue Rabastalière Est, St-Bruno, Québec, Canada

Thermodynamic Compressor **1,067,051/288** **Compresseur thermodynamique**

A method and apparatus for the thermodynamic assisted compression of gases wherein a gas is alternately compressed and expanded with the addition of heat regeneratively from one gas stream to another gas stream within the apparatus. Thus, heat energy from the gas being compressed is used to compress the gas. The basic method and apparatus are applicable to a variety of uses such as gas compression, turbines and heat temperature boosters. Working fluids may be gases or vapors, including air. Write: Michael Eskeli, 7994-41 Locke Lee, Houston, Texas 77042, U.S.A.

Fireplace Fuel Stove and Grill Device **1,067,368/288** **Réchaud et gril au mazout à placer dans un foyer**

A device which selectively forms either a fireplace fuel stove or a cooking grill and which is characterized by its simple all metal knockdown construction to be readily transported for indoor or outdoor use. Write: Gustave Fortier, 1120 2nd Avenue, Quebec, Quebec

Laser Isotope Separation **1,067,452/288** **Contrôleur logique numérique polyvalent**

A process and apparatus for separating isotopes by selective excitation of isotopic species of a volatile compound by tuned laser light. A highly cooled gas of the volatile compound is produced in which the isotopic shift is sharpened and defined. Before substantial condensation occurs, the cooled gas is irradiated with laser light precisely tuned to a desired wavelength to selectively excite a particular isotopic species in the cooled gas. The laser light may impart sufficient energy to the excited species to cause it to undergo photolysis, photochemical reaction or even to photoionize. Alternatively, a two-photon irradiation may be applied to the cooled gas to induce photolysis, photochemical reaction or photoionization. The process is particularly applicable to the separation of isotopes of uranium. Write: United States Department of Energy, Washington, D.C. 20545, U.S.A.

Dense Medium Separation **1,067,458/288** **Procédé de séparation en milieu dense**

In a dense medium separation process a product of a separation step containing separated material and magnetic dense medium particles is passed through a sieve bend and the undersize only, is treated for the magnetic recovery of the dense medium particles. Write: Anglo American Corporation of South Africa Limited, 44 Main Street, Johannesburg, Transvaal, South Africa

Measuring and Dispensing Apparatus **1,067,462/288** **Doseur**

An apparatus for automatically dispensing a measured volume of liquid. The liquid is fed into a cylinder and displaces a piston which expels a quantity of liquid proportional to the piston stroke. Write: Normand Demers, 126 Sherbrooke Street, Thetford Mines, County of Frontenance, Quebec, Canada; Claude Martin, R.R. 2 Garthby, County of Frontenac, Quebec, Canada

Overfill Preventive Funnel **1,067,467/288** **Entonnoir de protection contre les débordements**

A funnel for use in filling containers with liquid and designed to prevent overflowing of the container during filling. The funnel has two air vents one of which is adapted to be closed during initial filling of the container while the other stays open to vent the container during this initial filling. Write: Brian A. Orr, 1780 Dean Park Road, Sidney, B.C., V8L 1C1, Canada

Control of Nematodes and Other Helminths **1,067,517/288** **Destruction des nématodes et autres helminthes**

Some straight and branched chain amides and amines were found to be highly lethal to nematodes and other helminths. Write: United States Department of Commerce, 425 Thirteenth Street, N.W., Washington, D.C., U.S.A.

Method and Apparatus for Electrochemical Generation of Power from Hydrogen **1,067,568/288** **Méthode et appareillage permettant de produire de l'énergie, à partir de l'hydrogène, par voie électrochimique**

Method and apparatus for the pollution-free generation of electrical power from hydrogen in which molten lead is electrochemically oxidized to produce lead oxide and electricity in a single cell in which the resulting lead oxide is simultaneously converted back to lead metal by thermochemical reduction with hydrogen fuel, the entire process being carried out in a single cell using a molten salt as electrolyte in a temperature range of 500° to 900°C. The entire cycle consumes only hydrogen and oxygen, while producing electricity. Write: United States Department of Commerce, Washington, D.C., U.S.A.

Removal of Arsenic From Water **1,067,627/288** **Élimination de l'arsenic en présence dans l'eau**

A process and apparatus for removing arsenic from water intended for drinking purposes in which the water is passed through a bed or column of a porous support material having impregnated thereon a substantially water insoluble ferric compound. Preferably the ferric compound is ferric hydroxide, which is produced in situ on the support material, and the treatment is carried out at a pH of 4-8.3. Optimum removal of arsenic occurs at pH 4.4. Write: Nova Scotia Research Foundation Corporation, 100 Fenwick Street, Dartmouth, Nova Scotia, B2Y 3Z7, Canada

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Apparatus for Planting Seeds **PAT-APPL-6-043 974/WG/288** **Semoir**

The patent application relates to a process whereby seeds are punch planted by an apparatus comprising a disk equipped with a plurality of punches rotatably mounted on a frame. The punch disk is eccentrically driven to insure that the punches are perpendicular to the soil surface at all times. A seed disk is rotatably mounted on the frame and communicates with a seed hopper to singulate seeds to the punches. Price: PC U.S. $4.00/MF U.S. $3.00. Write: U.S. Department of Agriculture Research Agreements and Patent Management Branch, General Services Division, Federal Building, Agricultural Research Service, Hyattsville, Maryland 20782 and send a copy of your initial correspondence to: Canadian Consulate, 3 Parkway Building, Suite 1310, Philadelphia, Pennsylvania 19102.

Process for Improving the Palatability of Straw for Animal Feed **PAT-APPL-6-043 975/WG/288** **Procédé pour améliorer le goût de la paille fourragère**

The palatability as well as digestibility and protein content of straw is enhanced by treating it with a dilute aqueous solution of hydrochloric and phosphoric acids, ammoniating the acid-treated straw, and fermenting it with a yeast such as Aureobasidium pullulans. The so-treated straw is useful as a feed for ruminants and other animals. Price: PC U.S.$4.00/MF U.S.$3.00. Write: U.S. Department of Agriculture, Research Agreements and Patent Management Branch, General Services Division, Federal Building, Agricultural Research Service, Hyattsville, Maryland 20782 and send a copy of your initial correspondence to: Canadian Consulate, 3 Parkway Building, Suite 1310, Philadelphia, Pennsylvania 19102.

A Gage for Measuring Decrease in Dimension of Test Specimen in Tensile Test — **PAT-APPL-6-025 412/WG/288** — **Calibre de mesure de la réduction de la taille d'un spécimen d'essai d'une épreuve de tension**

According to this invention, a gage is provided which fits around a test specimen. The gage includes a spring loaded sliding member positioned within a frame member. The sliding member follows the test specimen as it decreases in width during elongation in a tensile test machine. A proximity detecting device senses the position of the sliding member with respect to the frame member and provides an electrical output signal proportional to displacement which may be supplied to a computer together with other test data for determining Poisson's ratio. The gage is supported on the tensile test machine with flexible attachments. U.S. Department of the Air Force. Price: PC U.S. $4.00/MF U.S. $3.00. Write: Mr. George Kudravetz, Product Manager, NTIS, United States Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22161 and send a copy of your initial correspondence to: Canadian Consulate, 3 Parkway Building, Suite 1310, Philadelphia, Pennsylvania 19102.

Optically Pumped Atomic Iodine Laser — **PAT-APPL-6-035 136/WG/288** — **Laser d'iode atomique pompé par rayons optiques**

This document describes an optically pumped atomic iodine laser with a lasing cavity formed by a sealed cell containing iodine vapor as the lasing medium. A tunable dye laser having an output wavelength in the 493-501 nm range is oriented so that its beam is directed into lasing cavity. This pumps the iodine vapor and results in its dissociation into an atomic iodine medium that lases at 1.315 microns. An optical cavity is formed by two mirrors mounted around the sealed cell on the optical axis of the lasing cavity in a substantially confocal configuration. The two mirrors are more than 99.9% reflective of radiation emitted by the lasing iodine vapor, but pass more than 80% of the radiation from the dye laser. A total reflector to radiation from the dye laser is positioned outside the optical cavity to reflect radiation from the dye laser back through the lasing cavity. U.S. Department of the Air Force. Price: PC U.S. $4.00/MF U.S. $3.00. Write: Mr. George Kudravetz, Product Manager, NTIS, United States Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22161 and send a copy of your initial correspondence to: Canadian Consulate, 3 Parkway Building, Suite 1310, Philadelphia, Pennsylvania 19102.

Iodinatable Bile Salts — **PAT-APPL-939 649/WG/288** — **Sels biliaires "iodables"**

The invention relates to a new group of bile salt derivatives which have the common property that they can be iodinated using either stable or unstable isotopes of iodine. The invention further relates to radioiodinates bile salt derivatives and their application to bile salt radioimmunoassays, hepatic-uptake and excretion measurements and hepatic scintigraphy. U.S. Department of Health, Education and Welfare. Price: PC U.S. $4.50/MF U.S. $3.00. Write: Mr. George Kudravetz, Product Manager, NTIS, United States Department of Commerce, 5285 Port Royal Road, Sprinfield, Virginia 22161 and send a copy of your initial correspondence to: Canadian Consulate, 3 Parkway Building, Suite 1310, Philadelphia, Pennsylvania 19102.

Sterility Testing Vessel — **PAT-APPL-6-022 220/WG/288** — **Récipient d'essai de stérilité**

A vessel is disclosed which is particularly suited to the sterility testing of drugs and medical equipment. The vessel comprises a glass container with a flat bottom and a plain cylindrical wall and a molded nylon cap which fits over the open end of the container. The cap has a skirt portion including a sealing ring which forms an airtight seal around the container and a top portion having a removable filter element held in place by a clip and which permits venting of the container. U.S. Department of Health, Education and Welfare. Price: PC U.S. $4.00/MF U.S. $3.00. Write: Mr. George Kudravetz, Product Manager, NTIS, United States Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22161 and send a copy of your initial correspondence to: Canadian Consulate, 3 Parkway Building, Suite 1310, Philadelphia, Pennsylvania 19102.

Smolder and Flame Resistant Insulation Materials, Composition and Method — **PAT-APPL-6-051 922/WG/288** — **Matériaux isolants ignifuges et "fumiguges", composition et méthode**

This patent application discusses a flame resistant-smolder resistant cellulosic insulation material, method of treating loose-fill cellulosic material and composition for imparting flame resistance and smolder resistance to such materials are disclosed with the combination of from about 2 to 9% sulfur and from about 10 to 25% flame retardant uniformally distributed in the cellulosic insulation material based on the weight of cellulosic material. U.S. Department of Health, Education and Welfare. Price: PC U.S. $4.00/MF U.S. $3.00. Write: Mr. George Kudravetz, Product Manager, NTIS, United States Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22161 and send a copy of your initial correspondence to: Canadian Consulate, 3 Parkway Building, Suite 1310, Philadelphia, Pennsylvania 19102.

Ion Beam Sputter Deposition of Fluoropolymers — **PAT-APPL-6-041 146/WG/288** — **Dépôt par grésillement d'un faisceau d'ions de fluoropolymères**

Ions are impinged on a fluoropolymer target which is the sputter deposition source for a large area substrate to be coated. A clear hydrophobic coating is produced on a substrate of selected solid materials. Price: PC U.S. $4.00/MF U.S. $3.00. Write: NASA, Lewis Research Center, 21000 Brookpark Road, Cleveland, Ohio 44135 and send a copy of your initial correspondence to: Canadian Consulate, Illuminating Building, 55 Public Square, Cleveland, Ohio 44113.

Lightning Discharge Identification System — **PAT-APPL-6-043 945/WG/288** — **Système d'identification des éclairs**

A system for differentiating between cloud to cloud and cloud to ground lightning discharges was developed which includes an electric field antenna that senses the rate of change of an electric field produced by a lightning discharge. When the signal produced by the electric field exceeds a predetermined threshold. It is fed to a coincidence detector. A VHF antenna is also provided. When signals from the electric field antenna and the VHF antenna appear at the coincidence detector simultaneously, such indicates that there is a cloud to cloud lightning discharge; whereas, when there is not a signal produced on the VHF antenna simultaneously with a signal produced by the field sensor, then a strike indicator connected to the coincidence detector indicates a cloud to ground lightning discharge. Price: PC U.S. $4.00/MF U.S. $3.00. Write: NASA, John F. Kennedy Space Center, Mail Code: SA-PAT, Kennedy Space Center, Cocoa Beach, Florida 32899 and send a copy of your initial correspondence to: Canadian Consulate General, 900 Coastal States Building, 260 Peachtree Street, Atlanta, Georgia 30303.

A System for Providing an Integrated Display of Instantaneous Information Relative to Aircraft Attitude, Heading, Altitude, and Horizontal Situation — **PAT-APPL-043 942/WG/288** — **Système d'affichage intégré de données instantanées sur la position, la direction, l'altitude et la position horizontale d'un avion**

A display device is described which provides an aircraft pilot with combined inflight attitude, heading, altitude, and horizontal situation information. This invention combines a commonly used and commercially available flight director-type devices for a display in combination with a miniature aircraft supported for angular displacement from a vertical orientation to indicate heading error, or heading offset. An extended course deviation indicator bar is also provided which projects into juxtaposition with the miniature aircraft for providing a true picture of the aircraft's horizontal situation relative to a selected VOR, ILS, or MLS course. Price: PC U.S. $4.50/MF U.S. $3.00. Write: National Aeronautics and Space Administration, Hugh L. Dryden, Flight Research Center, Edwards, California 93523 and send a copy of your initial correspondence to: Canadian Consulate General, 510 West Sixth Street, Los Angeles, California 90014.

Superplastically Formed Diffusion Bonded Metallic Structure — **PAT-APPL-6-043 944/WG/288** — **Structure métallique de diffusion en superplastique**

A pair of core plates formed of a superplastic alloy are interposed between the base plate and the cover plate in a sandwich relationship. Each of the core plates are characterized by a plurality of protrusions of square-based, truncated pyramids. These pyramids are uniformly aligned along orthogonally related axes which perpendicularly bisect the legs of the bases of the pyramids. The pyramids are also alternatively inverted along orthogonally related planes which diagonally bisect the pyramids. Thus, an orthogonally corrugated core is provided. Price: PC U.S. $4.00/MF U.S. $3.00. Write: National Aeronautics and Space Administration, Hugh L. Dryden, Flight Research Center, Edwards, California 93523 and send a copy of your initial correspondence to: Canadian Consulate General, 510 West Sixth Street, Los Angeles, California 90014.

Inductorless Narrow-Band Filter/Amplifier — **PAT-APPL-6-032 306/WG/288** — **Filtre-amplificateur de bande étroite sans induction**

An inductorless tuned circuit is described which employs a pair of directly coupled transistor stages which may be operated with a signal injected into the emitter of either transistor or may be operated as an oscillator. The transistors are selected so that they will be operating near and somewhat below their transitional frequency (f sub t) typically at a frequency of about F sub t/2. In one configuration, the circuit will appear as a positive reactance in series with a negative resitance. In another embodiment, the circuit will appear as a positive reactance in series with a negative resistance in parallel with a negative reactance in series with a resistance. Price: PC U.S. $4.00/MF U.S. $3.00. Write: NASA, Goddard Space Flight Center, Mail Code: 204, Greenbelt, Maryland 20771 and send a copy of your initial correspondence to: Canadian Consulate, 3 Parkway Building, Suite 1310, Philadelphia, Pennsylvania 19102.

Foldable Beam **PAT-APPL-6-014 663/WG/288** **Poutre repliable**

The invention is used in cases where a conventional solid beam is unsuitable, specifically where transportation to the use site requires a more lightweight or compact structure. Ease of deployment is another object. Construction of antennae or platforms in outer space is such a case. The novelty of the invention lies in the use of hinged segments in conjuction with cables, whereby a collapsed assembly of lightweight tublar struts may be readily deployed simply by applying tension to the cables, and just as easily stowed by loosening the cables. Price: PC U.S. $4.00/MF U.S. $3.00. Write: NASA, Langley Research Center, Mail Code 279, Hampton, Virginia 23665 and send a copy of your initial correspondence to: Canadian Consulate, 3 Parkway Building, Suite 1310, Philadelphia, Pennsylvania 19102.

Rotary Target V-Block **PAT-APPL-6-030 964/WG/288** **Dispositif rotatif dans un bloc en V**

A device is disclosed for measuring the distance from a reference plane to a flat or cylindrical surface. The device contains a rotatable measuring scale which is sited with an optical instrument to make the measurement. Readings are taken at various points along the surface to establish an elevation curve which is used to align the surface with the reference plane. Price: PC U.S. $4.00/MF U.S. $3.00. Write: NASA, Langley Research Center, Mail Code: 279, Hampton, Virginia 23665 and send a copy of your initial correspondence to: Canadian Consulate, 3 Parkway Building, Suite 1310, Philadelphia, Pennsylvania 19102.

Large Volume Multiple Path Nuclear Pumped Laser **PAT-APPL-6-041 141/WG/288** **Laser pompé à l'énergie nucléaire comportant des parcours multiples et un volume élevé de gaz**

A large volume multiple-path nuclear pumper laser, which improved caracteristics over previous cylindrical nuclear pumped laser systems, is presented. Large volumes of gas are excited by using internal high reflectance mirrors that are arranged so that the optical path crosses back and forth through the excited gaseous medium. By adjusting the external dielectric mirrors of the laser, the number of paths through the laser cavity can be varied. Output powers were obtained that are substantially higher than the output powers of previous nuclear laser systems. Price: PC U.S. $4.00/MF U.S. $3.00. Write: NASA, Langley Research Center, Mail Code: 313, Hampton, Virginia 23665 and send a copy of your initial correspondence to: Canadian Consulate, 3 Parkway Building, Suite 1310, Philadelphia, Pennsylvania 19102.

Improved Power Factor Control System for AC Induction Motors **PAT-APPL-6-044 431/WG/288** **Système amélioré de contrôle du facteur de puissance des moteurs à induction de CA**

A power control circuit for an induction motor was developed. A servo loop was used to control power input by controlling the power factor of motor operation. The power factor was then measured by summing the voltage and current derived square wave signals. Price: PC U.S. $4.00/MF U.S. $3.00. Write: NASA, Marshall Space Flight Center, Mail Code: CC01, Huntsville, Alabama 35812 and send a copy of your initial correspondence to: Canadian Consulate General, 900 Coastal States Building, 260 Peachtree Street, Atlanta, Georgia 30303.

Aircraft Engine Nozzle **PAT-APPL-6-023 436/WG/288** **Tugère de moteur d'avion**

A variable area exit nozzle arrangement for an aircraft engine having a substantially reduced length and weight is described. It comprises longitudinally movable radial vanes and fixed radial vanes. The movable radial vanes are alternately disposed with respect to the fixed radial vanes. Means for displacing the movable radial vanes along the longitudinal axis of the engine relative to the fixed radial vanes are determined. The fixed radial vanes radially extend across the main exhaust flow of the engine. Price: PC U.S. $4.00/MF U.S. $3.00. Write: NASA, Ames Research Center, Mail Code: 200-11A, Moffett Field, California 94035 and send a copy of your initial correspondence to: Canadian Consulate General, One Maritime Plaza, Alcoa Building, Suite 1100, Golden Gateway Center, San Francisco, California 94111.

Schottky Barrier Cell and Method of Fabricating It. **PAT-APPL-837 513/WG/288** **Cellule Schottky à couche d'arrêt et méthode de fabrication**

A low cost Schottky barrier type solar cell is described. The prior active layer substrate is replaced with an inexpensive semiconductor polycrystalline substrate on which the active layer is grown, eliminating the need for a single crystal wafer. The methods of forming native and nonnative interfacial oxide layers is presented. Price: PC U.S. $4.00/MF U.S. $3.00. Write: Patent Counsel,

NASA Resident Legal Office, Mail Code: 180-601, Grove Drive, Pasadena, California 91103 and send a copy of your initial correspondence to: Canadian Consulate General, 510 West Sixth Street, Los Angeles, California 90014.

Method and Apparatus for Producing Concentric Hollow Spheres — **PAT-APPL-6-037 072/WG/288** — **Méthode et dispositif de production de sphères concentriques creuses**

Hollow spheres with precisely concentric inner and outer spherical surfaces are formed by applying vibrations to a nonconcentric hollow sphere while it is at an elevated temperature at which it is fluid or plastic. The vibrations produce internal flows which cause the inner and outer surfaces to become precisely concentric. Concentric spheres can be mass produced by extruding a material such as glass or metal while injecting a stream of gas into the center of the extrusion to form a gas-filled tube. Vibrations are applied to the extruded tube to help break it up into individual hollow bodies of a desired uniform size. The bodies tending to form spherical inner and outer surfaces. Price: PC U.S. $4.00/MF U.S. $3.00. Write: Patent Counsel, NASA Resident Legal Office, Mail Code: 180-601, 4800 Oak Grove Drive, Pasadena, California 91103 and send a copy of your initial correspondence to: Canadian Consulate General, 510 West Sixth Street, Los Angeles, California 90014.

Copper Doped Polycrystalline Silicon — **PAT-APPL-6-043 941/WG/288** — **Silicone polycrystalline chargée de cuivre**

It was discovered, in accordance with the invention, that the presence of copper in polycrystalline silicon solar cells strongly enhances the performance of the cells. It was further discovered that the effect of copper in polycrystalline, silicon solar cells is contrary to that observed in single crystal silicon solar cells, that the effect is greater with smaller grain size, and that copper diffused into coarse grained silicon degrades cell performance. Price: PC U.S. $4.00/MF U.S. $3.00. Write: Patent Counsel, NASA Resident Legal Office, Mail Code: 180-601, Grove Drive, Pasadena, California 91103 and send a copy of your initial correspondence to: Canadian Consulate General, 510 West Sixth Street, Los Angeles, California 90014.

Method for Anisotropically Etching a Silicon Wafer Having a Reinforced Peripheral Portion — **PAT-APPL-6-044 428/WG/288** — **Méthode de corrosion par anisotropie d'une plaque de silicone dont une partie périphérique est renforcée**

A method is described for producing silicon wafers having reinforced peripheral portions for use in the production of silicon solar cells. The method is characterized by the steps of applying to the surface of the central portion of one surface of the silicon wafer to be etched, a mask leaving an exposed peripheral portion of the surface, depositing a layer of metallization on the exposed peripheral portion of the surface, removing the mask from a central portion of the surface and treating the thus exposed surface with an etching fluid for etching the central portion of the wafer to a desired thickness, and thereafter removing the layer of metallization from the surface of the peripheral portion of the cell. Price: PC U.S. $4.00/MF U.S. $3.00. Write: Patent Counsel, NASA Resident Legal Office, Mail Code: 180-601, Grove Drive, Pasadena, California 91103 and send a copy of your initial correspondence to: Canadian Consulate General, 510 West Sixth Street, Los Angeles, California 90014.

Echo Tracker/Range Finder for Radars and Sonars — **PAT-APPL-6-053 572/WG/288** — **Suiveur d'écho et télémètre pour les radars et les sonars**

An echo tracker/range finder or altimeter is described in which the pulse repetition frequency (PFR) of a predetermined number of transmitted pulses is adjusted so that echo pulses received from a reflecting object are positioned between transmitted pulses and divide their interpulse time interval into two time intervals having a predetermined ratio with respect to each other. The thus-adjusted PRF is related to the range of the reflecting object. In addition, the invention provides a means whereby the arrival time of plurality of echo pulses is defined as the time at which a composite echo pulse formed of a sum of the individual echo pulses has the highest amplitude. An especially useful application is in determining altitude information for an aircraft or an orbiting spacecraft utilizing a synthetic aperture imaging radar system. However, it could be used with sonar systems, laser ranger finders, or any other kind of rangefinding application in which a number of pulses are received. Price: PC U.S. $4.00/MF U.S. $3.00. Write: NASA Resident Legal Office, Mail Code: 180-601, 4800 Oak Grove Drive, Pasadena, California 91103 and send a copy of your initial correspondence to: Canadian Consulate General, 510 West Sixth Street, Los Angeles, California 90014.

Large Aperture Phased Element Modulator/Antenna — **PAT-APPL-970 828/WG/288** — **Modulateur-antenne à larges ouvertures et élément en phase**

An electro-optical modulator/antenna operates in the tunable diffraction grating mode to vary the magnitude of the zero diffraction order and consequently transmits optical information. A relatively thin slab of lithium niobate or equivalent electro-optic material has its lateral surfaces optically polished and its C-axis, or optical axis, running parallel to the polished lateral

surfaces. At least one set of interdigital metallic electrodes are deposited on the face or just within the lateral surfaces to form, among other things, a diffraction grating that is orthogonally disposed with respect to the C-axis. When a potential source is coupled to the interdigital electrodes, the electric fields between adjacent eletrodes change the crystal's index of refraction in accordance with the linear transverse Pockel's effect. The thin crystal having the electrodes substantially covering at least one of its lateral surfaces, thusly presents a large aperture modulator/antenna capable of modulating incident optical energy over a wide angle of incidence, for example, up to plus and minus 45 degrees. Because of the thinness of the crystal, transmissivity is good and losses are reduced. Price: PC U.S. $4.00/MF U.S. $3.00. Write: U.S. Department of the Navy, Assistant Chief for Patents, The Office of Naval Research, Mailing Code: 302, Arlington, Virginia 22217 and send a copy of your initial correspondence to: Canadian Consulate, 3 Parkway Building, Suite 1310, Philadelphia, Pennsylvania 19102.

Frequency Compression and Expansion Using an Electrooptical Processor — **PAT-APPL-6-029 796/WG/288** — **Compression et expansion de la fréquence par procédé électrooptique**

A method of compressing or expanding the frequency of signals while keeping the signals' original gross temporal relationship relies upon an electrooptical processor. An apertured mask is interposed between an area-array charge coupled device (CCD) and a light emitting diode (LED). Optical signals are emitted from the LED at a clock rate which is the same as the vertical shift rate of charge packets in the CCD. Sampling the CCD's horizontal shift register output at varying rates allows a changing of the frequencies of the optical signals or a reoccurring reversal of sequential portions. Sampling the CCD output at a slower rate than the vertical clock rate compresses the frequency of the representative optical signals and if the CCD output is sampled at a faster rate then the signals will be expanded or rearranged in sequentially reoccurring order. Thus, the electrooptic processor accomplishes a compression or expansion of signals with the signal's original gross temporal relationship and does not rely upon any mechanically displaceable parts. Price: PC U.S. $4.50/MF U.S. $3.00. Write: U.S. Department of the Navy, Assistant Chief for Patents, The Office of Naval Research, Mailing Code: 302, Arlington, Virginia 22217 and send a copy of your initial correspondence to: Canadian Consulate, 3 Parkway Building, Suite 1310, Philadelphia, Pennsylvania 19102.

An Excimer-Pumped Blue-green Laser — **PAT-APPL-6-041 969/WG/288** — **Laser bleu-vert pompé par "excimer"**

This document describes a method of achieving inversion in solid-state rare-earth materials for blue-green laser operation. A XeF excimer laser is used to pump a matching transition in divalent ytterbium in a host material. The host material is co-doped with a trivalent ion such as praseodymium (Pr(3+)) so that energy transfer to the trivalent ion will take place. Laser action is then from the Pr(3+) ion. Alternative matching absorption transitions also occur in the trivalent rare-earth ions of Tb, Dy, Ho, and Nd. (Author) Price: PC U.S. $4.00/MF U.S. $3.00. Write: U.S. Department of the Navy, Assistant Chief for Patents, The Office of Naval Research, Mailing Code: 302, Arlington, Virginia 22217 and send a copy of your initial correspondence to: Canadian Consulate, 3 Parkway Building, Suite 1310, Philadelphia, Pennsylvania 19102.

Aliphatic Phenoxy Polyphthalocyanine — **PAT-APPL-6-043 188/WG/288** — **Polyphtalocyanine de phénoxie aliphatique**

Polyphthalocyanine resins are obtained by heating, at a temperature from about 260 C to about 295 C, one or more bisortho-dinitriles. These resins are particularly useful in high-temperature structural composites. Price: PC U.S. $4.00/MF U.S. $3.00. Write: U.S. Department of the Navy, Assistant Chief of Patents, The Office of Naval Research, Mailing Code: 302, Arlington, Virginia 22217 and send a copy of your initial correspondence to: Canadian Consulate, 3 Parkway Building, Suite 1310, Philadelphia, Pennsylvania 19102.

Amplifier for Bipolar Signals — **PAT-APPL-6-046 575/WG/288** — **Amplificateur de signaux bipolaires**

An angle servo preamplifier is described for use in the tracking antenna servo drive system of a precision tracking radar system. The angle servo preamplifier processes tracking error signals indicative of tracking antenna pointing errors with respect to a target. The preamplifier is comprised of an input differential amplifier stage, a phase control stage, a sample and hold stage and a power amplifier stage. In addition, interfacing circuitry is included for coupling the preamplifier to the aximuth/secant correction system of the tracking radar system. The sample and hold stage includes 'deglitching' circuitry for suppressing sampling/switching transients. And, to accommodate a bipolar tracking error signal while utilizing a single voltage supply, the power amplifier stage performs d.c. level translation. Price: PC U.S. $5.25/MF U.S. $3.00. Write: U.S. Department of the Navy, Assistant Chief for Patents, The Office of Naval Research, Mailing Code: 302, Arlington, Virginia 22217 and send a copy of your initial correspondence to: Canadian Consulate, 3 Parkway Building, Suite 1310, Philadelphia, Pennsylvania 19102.

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Subthreshold Neutron Interrogator For Detection of Radioactive Materials — **PAT-APPL-948,266/288** — **Interrogateur de neutrons au seuil partiel pour détection de matières radioactives**

This invention pertains generally to nuclear materials and more specifically to devices and methods for determining concentrations of fissionable material, particularly within boreholes.

Stokes Injected Raman Capilary Waveguide Amplifier — **PAT-APPL-948-267/288** — **Amplificateur guide-ondes capillaire à injection Raman**

This invention pertains generally to infrared oscillators and amplifiers and more particularly to stimulated Raman scattering utilizing rotational transitions in a diatomic molecular gas.

High Efficiency Laser Spectrum Conditioner — **PAT-APPL-948,375/288** — **Conditionneur de spectre laser de haute efficacité**

This invention pertains generally to lasers and more particularly to laser spectrum conditioners. The quantum nature of gaseous molecular lasers and chemical lasers results in the production of various discrete frequencies in a generated output laser beam.

Time Delay Spectrum Conditioner — **PAT-APPL-948,454/288** — **Conditionneur de spectre à retardement**

This invention pertains generally to optics and more specifically to lasers. This particular invention is an improvement of the invention disclosed in application S.N. 948,375, entitled "High Efficiency Laser Spectrum Conditioner" filed October 4,1978 by the same inventor. In addition to the spectrum conditioning provided by the referenced copending application, it is oftentimes desirable to time delay a specified frequency or frequencies of the conditioned laser beam by predetermined amounts.

Radiation Detection System — **PAT-APPL-949,163/288** — **Système de détection des radiations**

This invention relates to radiation detection and more particularly to the detection of radiation and the transmission of intelligence corresponding to the radiation to a remote location for display, recording, and/or other processing. Even more particularly, it relates to radiation detection systems that utilize radiation-to-light converters, of the type commonly called fluors or scintillators, and optical fibers to transmit the light produced by the converter to the desired remote location.

Ultrasonic Signal Processor — **PAT-APPL-949,598/288** — **Processeur de signaux à ultrasons**

This invention relates generally to signal processing circuits and, more specifically, to an ultrasonic signal processor for improved presentation of an ultrasonic receiver signal. In the art of ultrasonic testing, especially for testing rock core samples, the sound wave characteristics of a core sample provides a measure for its permeability to the flow of oil as well as other useful properties which are very important to the petroleum industry for core evaluation.

High Power Gas Laser Amplifier — **PAT-APPL-951,543/288** — **Amplificateur de laser à haute puissance**

This invention relates to high energy gas lasers and more particularly, to a large, high pressure, gas laser power amplifier. The requirements of large energies on the order of tens of kilojoules, and short pulse durations of a nanosesond or less create unique design problems in high power laser amplifiers. With the large energies, it is desirable to use high flux densities to minimize size and cost.

Clamping Wrench | **PAT-APPL-952,877/288** | **Clé de serrage**

The invention relates to wrenches, and more particularly to clamping ratcheting wrenches. The wrench comprises two longitudinal members, a main member and a clamping member, which are hinged about a pivot pin in the head of the wrench. The head of each member is cut so that it essentially provides a semicircular wall. The wrench may be used as a conventional hand-held wrench but it is sufficiently strong to be used as an impact wrench which can be hit with a sledge hammer.

System for Testing Optical Fibers | **PAT-APPL-954,381/288** | **Système pour tester les fibres optiques**

This invention relates to fiber optic waveguides and more particularly to a system for measuring a combination of important optical transmission properties of fiber optic lightguides using a single apparatus. Accordingly, it is an object of the invention to provide a system for measuring optical transmission characteristics of fiber optic waveguides which overcomes difficulties of previously used systems.

Compact, Maintainable 80-KeV Neutral Beam Module | **PAT-APPL-954,679/288** | **Module de faisceaux neutres 80-KeV compact**

This invention relates to neutral-beam systems and more particularly to a compact 80-KeV arc chamber-extractor module for a neutral beam module.

Method for Fabricating Boron Carbide Articles | **PAT-APPL-956,317/288** | **Méthode de fabrication d'articles en carbure de bore**

This invention relates generally to the metallurgical preparation of highly pure boron carbide articles, and more particularly to such articles having a length-to-diameter or width ratio greater than about 2 to 1 and characterized by the high purity and uniform physical properties. Boron carbide articles of high purity and uniform density are particularly useful in nuclear, aerospace and other industrial applications where a highly refractory material is desired.

Cross-Flow Electrofilter and Method | **PAT-APPL-956,709/288** | **Electrofiltre interflux et méthode**

This invention relates to filtering devices that can be employed in clarifying nonaqueous carbonaceous liquids containing fine particles within slurries. It is particularly well adapted for use in clarifying carbonaceous liquid fuels such as those produced in the liquefaction of coal and other solid carbonaceous material.

Method of Analysis of Asbestiform Minerals by Thermoluminescence | **PAT-APPL-957,617/288** | **Méthode d'analyse des minéraux ressemblant à l'amiante par thermoluminescence**

This invention relates to a method for identifying and quantifying asbestiform minerals using theremoluminescent analysis, and more particularly, it relates to a method whereby thermoluminescent analysis is performed before and after subjecting a mineral sample to annealing and ionizing radiation.

Device for Measuring the Fluid Density of a Two-Phase Mixture | **PAT-APPL-957,618/288** | **Appareil de mesure de densité des fluides dans un mélange biphasé**

This invention relates to a device for measuring the fluid density of a two-phase mixture flowing through a tube. With the increased emphasis on safety, designers of pressurized water nuclear reactors are seeking to develop instrumentation capable of accurately measuring both single-phase and two-phase flow. Measurement of two-phase flow is difficult because of the rapidly changing fluid densities and flow regimes. This measurement is especially difficult in the harsh environment of a nuclear reactor system.

Treatment of Electrochemical Cell Components with Lithium Tetrachloaroaluminate ($LiA1C1_4$) to Promote Electrolyte Wetting | **PAT-APPL-957,619/288** | **Traitement de composantes de cellules électrochimiques avec tetrachloaroaluminate ($LiA1C1_4$) pour promouvoir le mouillage à l'électrolyte**

This invention relates to methods of assembling high-temperature electrochemical cells and is particularly directed to the problem of wetting cell components with molten salt electrolytes. Molten salt compositions, including the alkali metal halides

and alkaline earth metal halides, do not readily wet various ceramic and metallic materials that are employed in various electrochemical cell components. Components such as interelectrode separators, particle retainers and current collectors are of particular concern.

Miniature Stepping Motor — **PAT-APPL-957,621/288** — **Moteur fractionnaire miniature**

This invention relates to stepping motors, and more particularly to a stepping motor which may be selectively controlled and which may be constructed of very small size and minimum diameter. Due to the size of the prior known stepping motors, a need has existed for a miniature stepping motor of minimum diameter which can be selectively controlled whereby partial or full rotation of the output shaft can be readily accomplished. This invention satisfies this need.

Multistaged Stokes Injected Raman Capillary Waveguide Amplifier — **PAT-APPL-957,630/288** — **Amplificateur guide-ondes capillaire Raman à plusieurs étapes**

This invention pertains generally to infrared lasers and amplifiers and more particularly to stimulated Raman scattering utilizing rotational transitions in a diatomic molecular gas. The invention provides a multistaged Stokes injected Raman capillary waveguide amplifier. A plurality of optically coupled capillary waveguide amplifiers are injected with an external source of CO_2 laser radiation to improve Raman gain. Progressively larger capillary diameters in successive stages provide greater output power of the amplified Stokes signal.

Apparatus for Measuring Resistance Change only in a Cell Analyzer and Method for Calibrating it — **PAT-APPL-957,632/288** — **Appareillage de mesure des changements de résistance seulement dans un analyseur de cellule et méthode de calibrage**

This invention relates to cell analyzers and more particularly an apparatus and method for utilizing resistance change only across the orifice in such an analyzer. In cytology, there is an ever-increasing demand for automatic cellular counting, volumetric differenciation and analysis. This invention should assist in meeting that demand.

Signal Voter — **PAT-APPL-957,633/288** — **Voteur de signaux**

This invention relates to a signal voter for providing an output signal that is derived from a plurality of input signals whereby the signals are ranked by amplitude from high to low, the high or low signal that is furthest from the median signal is rejected, and the remaining signals are averaged to provide the output signal.

Target Assembly — **PAT-APPL-958,863/288** — **Assemblage-cible**

This invention relates to a target assembly adapted for use with a particle accelerator to generate neutrons. In more detail, the invention relates to an accelerator-breeder plant consisting of a novel target assembly composed of a neutron emissive target material which target assembly is driven by a linear accelerator producing a high intensity beam of protons and drives a blanket containing fertile material.

Shifting of Infrared Radiation Using Rotational Raman Resonances in Diatomic Molecular Gases — **PAT-APPL-960,409/288** — **Inversement des radiations infra-rouges à l'aide de résonnances rotatives Raman dans les gaz moléculaires diatomiques**

This invention relates to a device for shifting the frequency of infrared radiation from a CO_2 laser by stimulated Raman scattering in either H_2 or D_2. The device of the preferred embodiment comprises an H_2 Raman laser having dichroic mirrors which are reflective for 16 μm radiation and transmittive to 10 μm,disposed at opposite ends of an interaction cell.

Beam Heated Linear Theta-Pinch Device for Producing Hot Plasma — **PAT-APPL-960,410/288** — **Appareil linéaire "Theta-Pinch" à chauffage de faisceaux pour production de plasma chaud**

This invention pertains generally to plasmas and more specifically to devices for generating theremonuclear neutrons. This invention overcomes the disadvantages and limitations of the prior art by providing a beam heated linear theta-pinch device for producing hot plasmas. Both magnetic and beam energy are utilized to supplement each other to produce a hot plasma. The implosive nature and rapid burn characteristics of this invention eliminate end loss and plasma instability problems associated with magnetically contained systems.

Method for Inhibiting Corrosion in Aqueous Systems — **PAT-APPL-960,982/288** — **Méthode pour inhiber la corrosion dans les systèmes aqueux**

This invention relates broadly to methods for inhibiting the corrosion of metals exposed to aqueous liquids. More particularly, it pertains to a method for inhibiting such corrosion which is accomplished in two steps described in the specification.

Ceramic Component for Electrodes — **PAT-APPL-961,152/288** — **Composants céramiques pour électrodes**

This invention relates to an electrically conducting material. More specifically, it pertains to a ceramic material suitable for preparing electrodes for utilization as current collectors in the channel of a magnetohydrodynamic (MHD) generator.

Automatic Sweep Circuit — **PAT-APPL-961,153/288** — **Circuit de balayage automatique**

This invention pertains to an automatic sweep circuit. An automatically sweeping circuit for locating the signal pulse or pulses evoked by an input trigger signal is provided. Such a device may be used in an ultrasonic echo detection system. A clock is used to develop a pulsed output which is counted after the trigger input initiates the count. This trigger input also initiates the examination of the output signal for the desired response which lasts until a predetermined count is reached.

Trirotron: Triode Rotating Beam Radio-Frequency Amplifier — **PAT-APPL-963,495/288** — **Trirotron: amplificateur de radio-fréquences à faisceaux rotatifs triodes**

This invention relates to radio-frequency amplifiers, and more particularly to a high-power, high-efficiency radio-frequency amplifier utilizing a rotating beam of electrons. The invention includes a cathode for producing electrons; radio-frequency input means for forming the electrons into a beam with the aid of either electric or magnetic bias fields, or both, and rotating the beam around the cathode; means for adding energy to the beam during its rotation; and output means for extracting the energy of the beam. It is the object of the invention to very efficiently amplify radio frequencies to very high power levels.

Annular Flow Diverter Valve — **PAT-APPL-963,654/288** — **Soupape de déviation à flux annulaire**

This invention pertains to valves useful in both flow divergence and flow convergence, and more particularly to servo-controlled annular flow diverter valves which are also useful in the reverse direction for flow mixing.

Cross-Field Divertor for a Plasma Device — **PAT-APPL-963,655/288** — **Répartiteur à champs croisés pour un appareil à plasma**

This invention pertains to a divertor for removal of unwanted materials from the interior of a magnetic plasma confinement device and includes that division of the wall of the device into segments insulated from each other in order to apply an electric field having a component perpendicular to the confining magnetic field. The resulting crossed-field drift causes electrically charged particles to be removed from the outer part of the confinement chamber to a pumping chamber. This method moves the particles quickly past the saddle point in the poloidal magnetic field where they would otherwise tend to stall, and provides external control over the rate of removal by controlling the magnitude of the electric field.

Internal Zone Growth Method for Producing Metal Oxide-Metal Eutectic Composites — **PAT-APPL-964,406/288** — **Méthode à croissance de la zone interne pour production de composés eutectiques métal-oxyde-métal**

This invention relates to an improved method for preparing a cermet which comprises preparing a compact having about 85 to 95 percent theoretical density for a mixture of metal and metal oxide powders from a system containing an eutectic composition, and inductively heating the compact in a radiofrequency field to cause the formation of an internal molten zone. The metal oxide particles in the powder mixture are effectively sized relative to the metal particles to permit direct inductive heating of the compact by radiofrequency from room temperature. Surface melting is prevented by external cooling or by effectively sizing the particles in the powder mixture.

Method for Immobilizing Radioactive Iodine — **PAT-APPL-966,522/288** — **Méthode d'immobilisation de l'iodine radioactif**

This invention pertains to a method of incorporating radioactive iodine into an inert solid material for long-term storage. Radioactive iodine, present as alkali metal iodides or iodates in an aqueous solution, is incorporated into an inert solid material

for long-term storage by adding to the solution a stoichiometric amount with respect to the formation of a sodalite ($3M_20.3Al_2O_3.6SiO_2.2MX$, where M = alkali metal; X = I^- or $0I_3^-$) of an alkali metal, alumina and silica, stirring the solution to form a homogeneous mixture, drying the mixture to form a power, compacting and sintering the compacted powder at 1073 to 1373 K (800 to 1100°C) for a time sufficient to form sodalite.

Method of Regulating the Amount of Underfire Air for Combustion of Wood Fuels in Spreader-Stoker Boilers

PAT-APPL-966,523/288

Méthode de réglage de la quantité d'air sous le feu pour la combustion du bois de chauffage dans les chaudières "Spreader-Stoker"

This invention relates to a method of metering underfire air for increasing efficiency and reducing particulate emissions from wood-fire, spreader-stoker boilers. A portion of the combustion air, approximately one pound of air per pound of wood, is fed through the grate into the fuel bed, while the remainder of the combustion air is distributed above the fuel in the furnace, and the fuel bed is maintained at a depth sufficient to consume all oxygen admitted under the fire and to insure a continuous layer of fresh fuel thereover to entrap charred particles inside the fuel bed.

LiC1 Dehumidifier/LiBr Absorption Chiller Hybrid Air Conditioning System with Energy Recovery

PAT-APPL-966,524/288

Système de climatisation hybride comportant un déshumidificateur LiC1/et un refroidisseur par absorption LiBr avec récupération d'énergie

This invention relates to a hybrid air conditioning system that combines a solar powered LiCl dehumidifier with a LiBr absorption chiller. The desiccant dehumidifier removes the latent load by absorbing moisture from the air, and the sensible load is removed by the absorption chiller. The desiccant dehumidifier is coupled to a regenerator and the desiccant in the regenerator is heated by solar heated hot water to drive the moisture therefrom before being fed back to the demumidifier. The heat of vaporization expended in the desiccant regenerator is recovered and used to partially preheat the driving fluid of the absorption chiller, thus substantially improving the overall COP of the hybrid system.

Superconducting Wire with Improved Strain Characteristics

PAT-APPL-966,709/288

Fil superconducteur supportant mieux la tension

This invention pertains to a superconducting wire comprising a superconducting filament and a beryllium strengthened bronze matrix in which the addition of an unusually small percentage of beryllium to the matrix permits a low volume matrix to compress the superconducting filament and thereby improve the strain characteristics of the wire.

Clock Distribution System for Digital Computers

PAT-APPL-966,710/288

Système de répartition des horloges pour ordinateurs à affichage digital

This invention relates to clock distribution systems for digital computers, and more particularly to the method and apparatus for error elimination within clock distribution systems.

Method of Making V_3Ga Superconductors

PAT-APPL-967-178/288

Méthode de fabrication de supraconducteurs V_3Ga

This invention pertains to a composite superconductor having a core consisting substantially of an alloy of vanadium containing about 0.1 to about 15.0 atomic percent aluminum based on the weight of the core, said core having an external matrix superimposed on the outer surface of said core, said matrix consisting substantially of an alloy of copper containing from about 0.1 to about 30 atomic percent gallium and from about 0.0 to about 10 atomic percent aluminum, fabricating the resultant composite to a desirable shape, combining where necessary with aluminum stabilization and heat treating the thus fabricated composite.

Method of Freezing Living Cells and Tissues with Improved Subsequent Survival — **PAT-APPL-967,748/288** — **Méthode de congélation des cellules vivantes et tissus avec survie ultérieure améliorée**

This invention relates to an improved method for freezing red blood cells, other living cells, or tissues with improved subsequent survival, wherein constant-volume freezing is utilized that results in significantly improved survival compared with constant-pressure freezing; optimization is attainable through the use of different vessel geometries, cooling baths and warming baths, and sample concentrations.

Gaseous Trace Impurity Analyzer and Method — **PAT-APPL-970,842/288** — **Analyseur de traces d'impuretés à gaz et méthode**

This invention pertains to a simple apparatus for analyzing trace impurities in a gas, such as helium or hydrogen, which comprises means for drawing a measured volume of gas as a sample into a heated zone. A segregable portion of the zone is then chilled to condense trace impurities in the gas in the chilled portion. The gas sample is evacuated from the heated zone including the chilled portion.

Wide-Band-Gap, Alkaline-Earth-Oxide Semiconductor and Devices Utilizing Same — **PAT-APPL-973-660/288** — **Semiconducteur alkalin-terre-oxyde avec écartement à large bande et dispositifs d'utilisation**

This invention relates generally to semiconductors and to semiconductive devices utilizing the same. More particularly, it relates to novel semiconducting alkali-metal-doped alkaline-earth-oxide crystals which are characterized by a relatively high conductivity at temperatures up to and well above room temperature.

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INTERNATIONAL INVENTION AND TECHNOLOGY LICENSING EXHIBITIONS 1980/81

Technology transfer, invention and new product shows are ideal meeting places for businessmen interested in selling technology and know-how or in looking for inventions and new products to manufacture. Parties interested in investigating participation or attendance at any current or future fair should obtain additional information from the exhibition sponsor. Dates are not available for shows held in alternating years. Additional information can be obtained from: The Regional Office of the Department of Industry, Trade and Commerce located in your area. The Regional Offices can provide guidance, explain the advantages of attending trade fairs and the possibility of financial assistance through the PEMD program.

nº 445,931. On peut se procurer ces copies en écrivant au Commissaire des brevets, Ottawa-Hull, Canada K1A 0E1.

B) *Copies sur film*

Chaque brevet à partir du no 1 à date

Les copies de brevets reproduits sur film sont disponibles en écrivant à Micromedia Limitée, 165 rue Hôtel de Ville, Hull, Québec J8X 3X2.

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Abonnements annuels Brevet nº 986,651 à date

Précis de brevets canadiens par ordre numérique, par semaine —$50.00

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Brevet nº 1,013,101 à date

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AI ASSISTANCE INFORMATIONS. Prix: $38.00 par année. Revue bilingue français-anglais sur le développement et le transfert de technologie par AI Assistance Informations, 29, avenue de Friedland, 75008 Paris (France). On peut se procurer un exemplaire. Agent canadien: Bureau Frontenac, C.P. 282, Succursale B, Montréal (Québec) H3 l3J7.

EXPOSITION INTERNATIONALES SUR LA RÉGLEMENTATION DES INVENTIONS ET DES TECHNIQUES, 1980-1981

Les expositions sur le transfert technologique, les inventions et les nouveaux produits sont des lieux de rencontre idéals pour les hommes d'affaires intéressés à vendre des techniques et du savoir-faire ou à la recherche d'inventions et de nouveaux produits à fabriquer. Ceux qui sont intéressés à participer ou à assister à une foire, actuelle ou future, peuvent obtenir des renseignements supplémentaires auprès de l'organisme parrain de l'exposition. Il est à noter que les dates des expositions biennales ne sont pas disponibles. Vous pouvez obtenir de plus amples renseignements du Bureau Régional du Ministère de l'Industrie et du Commerce de votre région. Le Bureau Régional peut vous fournir des conseils ainsi que des renseignements concernant les possibilités d'aide financiaire par l'entremise du programme PEMD dans le cadre de participation à ces foires.

TECHEX '80 America World Congress Center Atlanta, Georgia, U.S.A. February 19-22, 1980	Dr. Dvorkovitz & Associates P.O. Box 1748 Ormond Beach, Florida 32074, U.S.A. Tel: (904) 677-7033
TECHEX '80 Europa Bella Center Copenhagen, Denmark February 26-29, 1980	Dr. Dvorkovitz & Associates P.O. Box 1748 Ormond Beach, Florida 32074, U.S.A. Tel: (904) 677-7033
TECHEX '80 Asia World Trade Center Singapore Republic of Singapore March 5-7, 1980	Dr. Dvorkovitz & Associates P.O. Box 1748 Ormond Beach, Florida 32074, U.S.A. Tel: (904) 677-7033
INOVA Palais des Congrès Edifice des conférences Porte Maillot Centre International de Paris, France April 6-11, 1981	François Algoud, président TECHNOEXPO 8, rue de la Michodière 75002 Paris, France Tél: 742 55 71
TECH-TRANSFAIR '80 (Biennial) Royal Netherlands Industries Fair Utrecht, Holland May 13-16, 1980	Royal Netherlands Industries Fair P.O. Box 8500 NL03505 RM Utrecht, Holland Tel: (030) 914-914
IWI INVENTORS EXPO Los Angeles, California May 1980 (tentative)	Mr. Mel Fuller, President Inventors Workshop International (IWI) 5068 Mecca Avenue Tarzana, California 91356, U.S.A. Tel: (213) 889-4207
TRX FAIR 1980 Melbourne Showgrounds Melbourne, Australia October 14-17, 1980	Mr. J.H.S. Fidler General Manager Australian Innovation Corporation Ltd. 150 Queen Street Melbourne, Victoria 3000, Australia
INVEX '80 Exhibition Exhibition Center Brno, Czechoslovakia October 23-29, 1980	Mr. Alois Dobes Sales Manager FTO Polytechna Panska 9 P.O. Box 834 112 45 Praha 1, Czechoslovakia Tel: 22 49 41
IENA '80 Nuremberg Fair Centre Federal Republic of Germany November 5-9, 1980	AFAG-Ausstellungslfeitung Messexentrum Nurnberg D 8500 Nurnberg, Germany Tel: 0911/86691

TECHNO '81 (Biennial)
Science Museum
Kitanomaru Park
Chiyoda-ku
Tokyo, Japan
November 1981

Techno '81, Tokyo Executive Office
The Japan Industrial Daily News and
The Nihon Kogyo Shimbun
7-2, 1 Chome, Ohtemachi
Chiyoda-ku, Tokyo 100, Japan
Tel: 03-231-7111

9th INTERNATIONAL EXHIBITION OF INVENTIONS AND NEW TECHNIQUES
Palais des Expositions
Genève, Suisse
November 28-December 7, 1980

M. Jean-Luc Vincent
Président
Secrétariat, Salon International des Inventions
8, rue du 31-Décembre
CH-1207
Genève, Suisse
Tél: (022) 36 59 49

EUREKA 29TH WORLD INVENTIONS EXHIBITION
Rogier Expo Centre
Brussels, Belgium
December 1980

29th World Inventions Exhibitions
Sogestor
14 Duquesnoy Street
1000 Brussels, Belgium
Tel: 02/512.21.87

EXHIBITING AT TRADE SHOWS

This free Management Aid for Small Manufacturers published in 1979 by the U.S. Small Business Administration outlines how small manufacturers may use trade shows to provide a boost that can help in an overall marketing plan. Like other advertising and sales promotion media, trade shows have strengths and weaknesses that must be considered before attempting to exhibit at them. This pamphlet discusses how to exploit the strengths of such exhibitions. It offers practical tips on how to get the most out of the medium and suggests sources of assistance to small business owner-managers interested in demonstrating their products at trade shows and to those interested in buying or selling technology. A bibliography is included. Write: Small Business Administration, P.O. Box 15434, Fort Worth, Texas 76119 for copies.
Further references for readers exploring the subject of Trade Shows:

- Creative Selling Through Trade Shows by Al Hanlon, 1977, Hawthorn Books, Inc., 260 Madison Avenue, New York, N.Y. 10016;
- The Exhibit Medium by David Maxwell, 1978 Successful Meetings Magazine, 1422 Chestnut Street, Philadelphia, PA 19102;
- How to Participate Profitably in Trade Shows by Robert B. Konikow, 1977. Dartnell Corporation, 4660 Ravenswood Avenue, Chicago, IL 60640.

LICENSING IN FOREIGN AND DOMESTIC OPERATIONS: FORMS

Price: Two volumes U.S. $100.00 (U.S. $90.00 prepaid, free postage and handling – cheque, money order drawn on U.S. bank, Visa or Master Charge; no charge for current revision or revision issued within six months of purchase) by Robert Goldscheider, published 1978/79 and revised annually, LC No. 58-13380 ISBN 0-87632-075-2. Written by one of the foremost practioners in the field and tested in practice, these forms cover any licensing transaction no matter how complex. They can be applied with little or no substantive changes for similar transactions or as detailed roadmaps for designing solutions to unique licensing problems. Model agreements from fast food franchises to the latest petrochemical and electronic technology are included.

A SPECIAL REPORT ON HOW TO LICENSE TECHNOLOGIES TO THE PEOPLE'S REPUBLIC OF CHINA

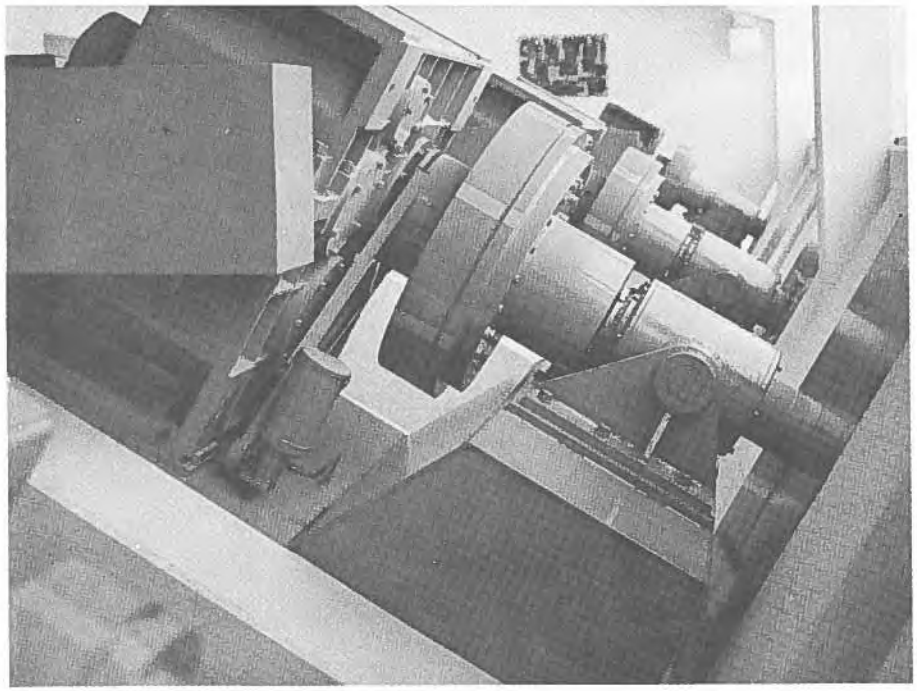
Price: U.S. $215.00, 300 pp., published September 5, 1979 in English, written by people most experienced in the transfer of technology to China and sponsored by the Japan Industrial Daily News. The report introduces the basic philosophy, policy and rules of the Chinese Government on technology transfer based on the knowledge and experience of the experts who have long been engaged in technology transfer and plant export to the PRC. Available from: Nihon Brain Corporation, Sankei Annex 901, 1-7-2 Otemachi, Chiyoda-ku, Tokyo, Japan. Tel: 03-242-2081, 2082.

SUCCESSFUL LICENSING TO AND FROM JAPAN

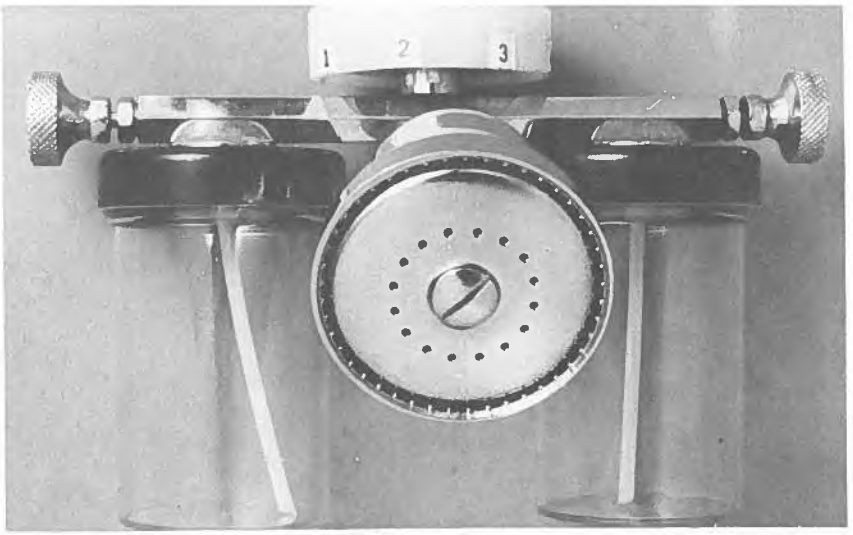
Price: U.S. $50.00 plus U.S. $4.00 postage, 212 pp., revised edition 1977 written in English, by Yoshio Matsunaga, Senior Licensing Consultant of Fuji National City Consultants and Vice President, LES-Japan for 1974. The key to successful licensing and negotiations with prospective Japanese partners is to have a clear and correct understanding of the Japanese point of view especially with respect to the basic interpretation of licensing. Foreign businessmen interested in the import and export of technology to and from Japan will find useful information in this publication. Available from: Nihon Brain Corporation, Sankei Annex 901, 1-7-2 Otemachi, Chiyoda-ku, Tokyo, Japan. Tel: 03-242-2801, 2082.

FORMS AND AGREEMENTS ON INTELLECTUAL PROPERTY AND INTERNATIONAL LICENSING

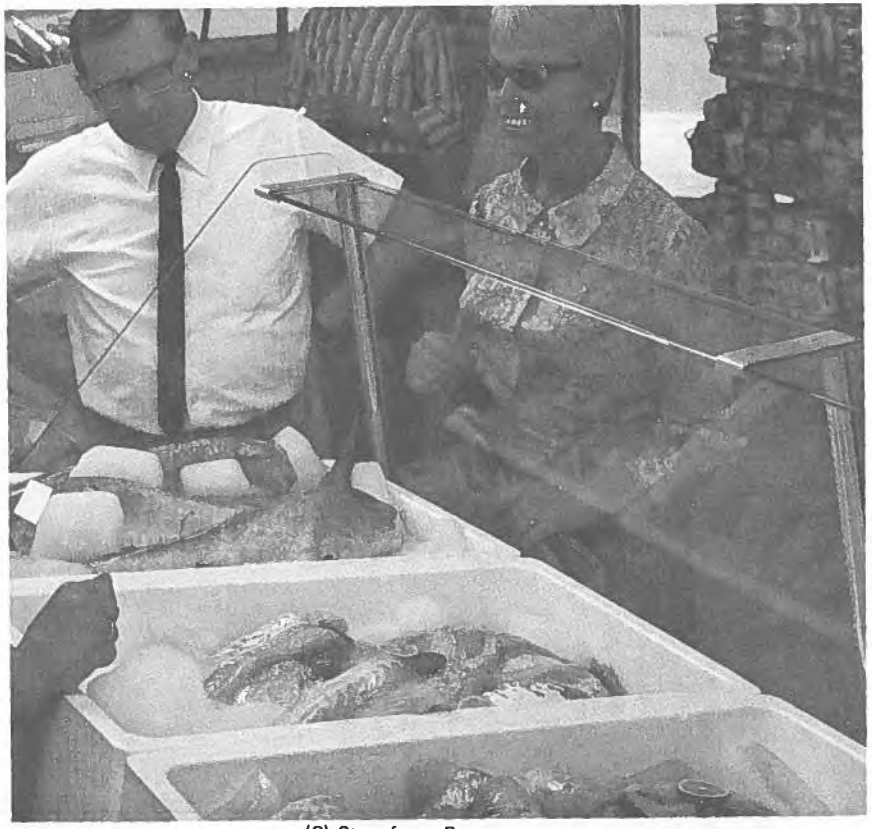
Price: $60.00. 400 pp. Revised 3rd edition, published 1979 loose-leaf volume LC No. 78-17576, by L.W. Melville. Reflects the changes in international law since publication of the second edition in 1972. Contains fully drafted examples of forms and agreements and a clause index to facilitate locating a particular clause dealing with all forms of intellectual property. Available from: Clark Boardman Co. Ltd, 435 Hudson Street, New York, N.Y. 10014.



(1) Screw Pumps
(1) Pompes à vis



(2) Shower Dispenser
(2) Distributeur pour douche



(3) Styrofoam Boxes
(3) Boîtes de styromousse