

new products bulletin

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 (Telephones: (613) 995-5771) should be advised of any agreements concluded as a result of this publicity.

SEPTEMBER 1979

Motorcycle Luggage Trailer

A Canadian inventor is offering for licensing or sale Canadian patent number 955 617 for a motorcycle luggage trailer. The trailer concerned is adjusted for stability at all speeds, does not affect the stability of a motorcycle towing it, and runs on one wheel only at normal speed for less ground resistance, but also rests on several wheels to maintain its balance at low speed or when stationary. This motorcycle trailer consists of a frame, one main wheel mounted on an axle which remains fixed in relation to the frame, two auxiliary wheels with vertical forward and lateral movement located one on each side of the main wheel, and a hitch suitable for attaching the motorcycle and for making the lateral tilting of the trailer follow that of the motorcycle. Write: Mr. Jacques Collard, 695, Le Cavalier, Ste-Foy, Quebec G1X 3H9 and send a copy of your initial correspondence to: Licensing Opportunities Section (34/3), Business Centre, Department of Industry, Trade and Commerce, Ottawa, Ontario K1A 0H5.

Lightweight Precast Concrete/Fibreglass Molds

American research organization offers license and machinery to Canadian company for the non-exclusive manufacture of 1) its patented "Donolite" lightweight concrete and 2) fibreglass molds for producing proprietary shaped precast articles from the concrete, i.e., low cost housing, lightweight concrete blocks, roofing applications, air conditioner slabs, pump houses, small storage houses, fire isolation for oil tanks, fence posts, landscape rocks and waterfalls, solar collector trays, floating hydroponics, etc. The following test reports on "Donolite" have been provided: Cylinder size 6"x12", compressive strength 900 psi flame tunnel spread test - minus 3, no fuel or smoke contribution, no thermal



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bulletin de produits nouveaux

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, aeriez-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.

BULLETIN 284

SEPTEMBRE 1979

Remorque à bagages pour motocyclette

Un inventeur canadien offre sous licence ou à la vente le brevet canadien numéro 955,617 couvrant une remorque à bagages pour motocyclette. Il s'agit d'une remorque qui est adaptée pour être stable à toute vitesse d'opération, qui n'augmente pas l'instabilité d'une motocyclette qui la tire, et qui ne roule que sur une roue à vitesse normale pour moins de résistance avec le sol, mais qui repose aussi sur plusieurs roues pour son équilibre à basse vitesse et au repos. Une remorque pour motocyclette comprenant un châssis, une roue principale montée sur un axe fixe par rapport au châssis, deux roues auxiliaires se déplaçant verticalement à l'avant et latéralement de part et d'autre de la roue principale et une attache adaptée pour engager la motocyclette et assujettir l'inclinaison latérale de la remorque à celle de la motocyclette. Écrire à: M. Jacques Collard, 695, Le Cavalier, Ste-Foy, Québec G1X 3H9 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 (Ontario) K1A 0H5.

Moules de fibre de verre pour béton préfabriqué léger

Un organisme de recherche américain offre, sous licence, à une société canadienne les droits non exclusifs et la machinerie de fabrication de 1) son béton léger breveté appelé "Donolite" et de 2) ses moules en fibre de verre servant à produire des articles préfabriqués de formes particulières en béton. Leurs applications: habitations à prix modique, blocs de béton légers, matériaux de toitures, plaques de climatiseurs, abris pour pompes, petits entrepôts, parois isolantes à l'épreuve du feu pour les réservoirs d'huile, poteaux de clôtures, pierres et aménagement de chutes d'eau en création paysagère, bacs de capteurs solaires, dispositifs pour la culture hydroponique, etc. Le rapport suivant sur les tests effectués sur les produits en "Donolite" signale: dimensions



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shock, thickness: inches 0,934, loss on drying %Dry weight @ 220F 7.7, density lbs. per cu.ft. 40.29, temperature hot side 96.9F, temperature cold side 53.1F, average mean temperature 75.0F, thermal conductivity - K - 0.908 expressed in BTU per hour flowing between opposite faces of one sq.ft. of the material when the temperature gradient is one degree F for an inch of thickness. Test reports on "Donolite" blocks: block weight 18.06-7 day test - total load lbs. 34,000, compressive strength 940, grout test - 14 day - 1270 psi. See illustrations. Write: Mandish Research Inc., R.D. #2, Box 184, Titusville, Florida 32780 and send a copy of your initial correspondence to: Canadian Consule General, 900 Coastal State Building, 260 Peachtree Street, Atlanta, Georgia 30303.

Loading and Transporting Device with Weighing Equipment

Danish firm offers the Canadian manufacturing and marketing rights to its weighing equipment for loading machines on a royalty basis, lump sum payment or a combination of both. The device, for the loading and transporting of bulk material, is adapted to effect a precise apportioning of such material into the bucket of the device. A horizontal conveyor screw in the bottom of the bucket permits removal of the material through an aperture in the bucket wall. A pressure gauge connected to an hydraulic ram for lifting the bucket gives a reading of the weight of the material in the bucket. For apportioning a predetermined amount of material, the bucket is first loaded and lifted to a weighing position. Excess material is removed to the desired weight using the conveyor screw. A sealing sleeve surrounds the discharge to prevent material being dropped while in transit. The weighing equipment can be installed in all types of loading machines and tractors with front end loaders, can weigh all bulk goods but cannot adjust the quantity of very coarse or wet materials. See illustration. Write: Grenaa Smedie OG Maskinfabrik A/S, Lillegade 39, 8500 Grenaa, Denmark and send a copy of your initial correspondence to: Commercial Division, Canadian Embassy, Princesse Maries Allé 2, Copenhagen, Denmark.

Solar Collectors and Systems

American company offers exclusive manufacturing and marketing rights in Canada for its "Sustream" solar collectors and systems having residential and commercial applications. The firm will provide full technical and market support including all manufacturing drawings; training; computer sizing, software and packaging; literature; and access to improvements by it and other licensees (Korea, Holland). Collectors are built up to available glass size, 4' X 10', with various internal header configurations, alternative nipple

du cylindre (6" x 12"), force de compression 900 lb/po², test d'extensivité en chambre enflammée moins 3, sans carburant ni fumée, aucun choc thermique, épaisseur: 0,934 pouces, perte au séchage en % du poids sec à 220°F 7,7, densité en lb au u pi³ 40,29, température (côté chaud) 96,9°F, température (côté froid) 53,1°F, température moyenne 75,9°F, conductivité thermique -K- 0,908 exprimé en BTU à l'heure se déplaçant entre des faces opposées de 1 pi² de matériaux lorsque l'abaissement de la température est de 1°F pour un pouce d'épaisseur. Le rapport sur les tests effectués sur les blocs "Donolite" signale: poids du bloc 18,06, durée du test: 7 jours, poids total de la charge 34 000 lbs, force de compression 940, résistance au jointolement après 14 jours: 1 270 lb/po². Voir les illustrations. Veuillez écrire à Mandish Research Inc., R.D. # 2, Box 184, Titusville, Floride 32780 et envoyer une copie de votre correspondance initiale au Consulat général du Canada 900 Coastal States Building, 260 Peachtree Street, Atlanta (Georgie) 30303.

Dispositif de chargement et de transport muni d'un appareil de pesée

Une société danoise offre les droits de fabrication et de commercialisation au Canada de son appareil de pesée pour chargeurs moyennant des redevances, un paiement à forfait ou une combinaison des deux arrangements. Le dispositif, servant au chargement et au transport du matériel en vrac, est adapté de façon à effectuer une pesée précise de ce matériel dans la benne du dispositif. Une vis de transport horizontale placée au bas de la benne permet de décharger du matériel par une ouverture dans la paroi de la benne. Un manomètre relié à un bélier hydraulique servant à lever la benne permet de lire le poids du matériel dans la benne. Pour obtenir une quantité prédéterminée de matériel, la benne est d'abord chargée et levée en position de pesée. L'excès de matériel est enlevé jusqu'à obtention du poids désiré par l'utilisation de la vis de transport. Un manchon scelle l'ouverture de décharge pour empêcher que le matériel ne s'échappe lors du transport. Le dispositif de pesée peut être installé sur tout type de chargeurs et de tracteurs munis de bennes de chargement frontales; il peut peser toutes les marchandises en vrac, mais ne peut ajuster la quantité des matériaux très gros ou trempés. Voir l'illustration. Veuillez écrire à: Grenaa Smedie OG Maskinfabrik A/S, Lillegade 39, 8500 Grenaa, Danemark, et envoyer une copie de votre correspondance initiale à la Division commerciale de l'Ambassade du Canada, Princesse Maries Allé 2, Copenhague, Danemark.

Collecteurs et systèmes solaires

Une société américaine offre les droits exclusifs de fabrication et de commercialisation au Canada de ses collecteurs et de ses systèmes solaires "Sustream" aux applications résidentielles et commerciales. La société fournira un plein appui technique et en matière de commercialisation y compris tous les plans, la formation du personnel; l'établissement des dimensions par ordinateur; la programmation et l'emballage; la documentation et des possibilités d'amélioration par elle-même ou par d'autres détenteurs de licences (Corée, Pays-Bas). Les collecteurs sont construits en fonction des formats

orientations options and can be bracket or wall mounted, parallel or on an angle to the roof. The heat exchanger modules provide heat transfer and system monitor capabilities in the same unit, have counter-flow heat transfer systems with leak detection capability, a monitor function for checking fluid pressure and temperature, an on/off switch. Unit is lightweight and plugs into a 110 volt outlet, is designed to work with gas, oil or electric water heating systems and can have one or two water tanks or one with an electric heating element. Outdoor pool heating units are all metal, can accommodate existing roof projections. For higher temperature and larger installations its series "60" feature aluminum frame construction and acrylic glazing with aluminum "ROLLBOND" absorber plates or black chrome copper absorber plates, all flat, black point coated, or "Finplank" absorber plates with copper flow passages. The aluminum frames are white baked on enamel, fit together to form a strong rigid support. Firm has a 230 dealer network in the U.S. and a small dealer network in Canada at the Metropolitan Life Building, Suite 741, 99 Bank Street, Ottawa, Ontario K1P 6B9. See illustrations. Write: Mr. M. Cucurullo, Grumman International, Inc., 1111 Stewart Ave., Bethpage, N.Y. 11714 and send a copy of your initial correspondence to: Canadian Consulate General, 1251 Avenue of the Americas, New York, N.Y. 10020.

Drip Irrigation Pipe

Israeli inventor seeks a joint venture partner in Canada to manufacture and market his "DRIPINSERT" system of manufacturing irrigation pipes consisting of an outer sleeve and an inner part comprising a cylinder with a peripheral helical groove (Canadian patent 1,053,726; U.S. patent 3,981,452). The system is currently being manufactured in Israel and Greece for the Israeli, British, French, Italian, Spanish, Dutch, Greek, Yugoslav, Romanian, Bulgarian, Syrian, Jordanian and Lebanese markets. Operating with pipe extrusion machines, labyrinth - path drippers are inserted into 16 mm. OD pipes with water flow rates of 2-4 litres per hour as they are extruded, thus forming integrated units which do not separate under the most arduous conditions. The system operates under pressures between 0.5 to 3.5 atm. which can be regulated. Low pressure drop along the line allows utilization of longer lines. Water flow rate is not affected by changes in temperature. Relatively large labyrinth paths reduce the incidence of blocking. The pipe can be cleaned with high water or air pressure without danger

de panneaux de verre disponibles (jusqu'à 4' x 10') avec diverses configurations des conduits entrée- sortie internes et plusieurs orientations possibles des raccords. On peut les poser à l'aide de tasseaux ou les installer sur les murs, en position parallèle au toit ou de manière à former un angle avec celui-ci. Les modules échangeurs de chaleur assurent le transfert de la chaleur et la surveillance du système dans un même appareil. Ils peuvent transférer la chaleur à contre-flux et détecter les fuites. En outre, ils permettent de vérifier la pression et la température du fluide et comportent un interrupteur pour la mise en marche et l'arrêt. Il s'agit d'un appareillage léger qu'on peut brancher sur une prise de 110 volt et qui s'applique aux chauffe-eau au gaz, à l'huile et à l'électricité. Ils peuvent comporter un ou deux réservoirs d'eau ou un seul avec élément de chauffage électrique. Les chauffe-eau pour piscines installés à l'extérieur sont construits entièrement en métal et peuvent s'adapter aux formes du toit. Pour les températures plus élevées et les plus grandes installations les articles de la série "60" présentent les caractéristiques suivantes: cadre en aluminium, surfaces glacées en matériau acrylique, plaques absorbantes "ROLLBOND" en aluminium ou noires en chrome et cuivre. Toutes les plaques sont planes, comportent une couche de peinture noire ou sont du type "Finplank" avec tubes pour la circulation du fluide en cuivre. Les cadres en aluminium comportent une couche d'émail blanc cuit et s'assemblent pour former un support rigide solide. La firme possède un réseau de 230 concessionnaires aux E.-U. et un réseau plus petit au Canada. Situé à l'immeuble Metropolitan Life, pièce 741, 99 rue Bank, Ottawa (Ontario) K1P 6B9. Voir les illustrations. Écrire à M.M. Cucurullo, Grumman International, Inc., 1111 Stewart Ave., Bethpage (N.Y.) 11714, et adresser une copie de votre correspondance initiale au Consulat général du Canada, 1251 Avenue of the Americas, New York (N.Y.) 10020.

Tuyau d'irrigation goutte à goutte

Un inventeur israélien recherche un associé canadien désireux de former une coentreprise pour la fabrication et la commercialisation de son système "DRIPINSERT". Il s'agit de tuyaux d'irrigation comportant un manchon extérieur et un cylindre intérieur avec sillons périphériques en spirale (brevet canadien 1 053 726; brevet américain 3 981 452). Les tuyaux sont fabriqués actuellement en Israël, et en Grèce et vendus en Israël, en Grande-Bretagne, en France, en Italie, en Espagne, aux Pays-Bas, en Grèce, en Yougoslavie, en Roumanie, en Bulgarie, en Syrie, en Jordanie et au Liban. Fonctionnant avec la machinerie d'extrusion de tuyaux, les dispositifs d'irrigation goutte à goutte à paroi en labyrinthe mesurent 16 mm. Ils sont insérés dans les tuyaux OD: leur débit d'eau est de 2 à 4 litres à l'heure pendant l'extrusion. Ce procédé donne des unités intégrées qui ne peuvent être séparées même dans les conditions les plus ardues. Le système applique une pression réglable allant de 0.5 à 3.5 atm. L'égouttement sous basse pression le long des canalisations permet l'utilisation de canalisations plus longues. Les changements de température n'affectent pas le débit d'eau. Les labyrinthes relativement grands réduisent les risques de

of pulling apart and the smooth exterior eliminates snagging. The pipe is not affected by fertilizers and has a variety of applications — in corn fields, vineyards, plantations, orchards, green houses, lawns, vegetable gardens, etc. See illustration. Write: Dripin N.V. Curacas, c/o IRMA — Mr. B. Ben-Shlomo, 8 Lysicratous St., Athens, Greece and send a copy of your initial correspondence to: Commercial Division, Canadian Embassy, 4 Ioannow Ghennadiou Street, Athens 140, Greece.

Television Selector/Programmer

American agency is seeking a Canadian company to manufacture and market worldwide a small electronic device that attaches to any television set and allows the user to select, in advance, a desired television schedule for the entire week. The hours the set is to be turned on or off as well as the show selected or to be blacked out can be programmed. The programmer consists of two units — the local console and the remote console. The remote console contains the switches, keyboard, displays and electronic circuitry required to implement the programming functions and control the local console. When the power is first applied, the unit goes into code entry mode. A three-digit code can be fed in as a key for censorship functions in order to prevent tampering by children to get the set on when it should be off. Only those privy to the code can alter the programming. If the right code is not fed in, nothing will happen. The programmer is not patentable. Its protection lies in the fact that the chip is undecipherable by another programmer and the fact that it would take someone else six to eight months to prepare a chip. Write: Mr. M.E. Weisberg, Inventors Licensing and Marketing Agency, P.O. Box 251, Tarzana, California 91356 and send a copy of your initial correspondence to: Consul and Trade Commissioner, Canadian Consulate, Suite 1310, Three Parkway Building, Philadelphia, Pa. 19102.

Rapid Cooling Machine for Heavy Plates

French exclusive licensee for the USINOR steel company's rapid cooling machine for heavy plates now in operation in Dunkirk, is seeking sub-licensees for the product in Canada. The French manufacturer will supply technical data and assistance in establishing drawings for projects which it will control and approve. Under direction from the licensor the Canadian firm will be expected to employ its own manufacturing methods, using local components and materials, and meeting its clients' requirements unless the essential characteristics of the process are modified or the manufacturing time is excessively increased. The machine consists of nine pairs of rolls placed in two rows and is capable of tempering sheet steel measuring from 10 to 50 mm thick, 1.5 to 4.2 m wide and 5 to 16 m long. The speed of cooling the

blocage. On peut nettoyer les tuyaux par jet d'eau ou d'air à haute pression sans risque de séparation et la paroi extérieure lisse supprime toute obstruction. Les engrais ne nuisent pas au fonctionnement de ces tuyaux aux diverses applications: champs de maïs, vignobles, plantations, vergers, serres, pelouses, potagers, etc. Voir l'illustration. Ecrire à: Dripin N.V. Curacas, a/s IRMA — M.B. Ben-Shlomo, 8, rue Lysicratous, Athènes, Grèce. Veuillez adresser une copie de votre correspondance initiale à la Division commerciale, Ambassade du Canada, 4, rue Ionnow Ghennadiou, Athènes 140, Grèce.

Sélecteur/programmeur de télévision

Un organisme américain recherche une société canadienne pour fabriquer et vendre à l'échelle mondiale un petit dispositif électronique pouvant être fixé à n'importe quel téléviseur et qui permet à son utilisateur d'établir l'horaire de télévision de son choix pour la semaine. Ce dispositif permet également de programmer les heures de mise en marche et d'arrêt du téléviseur ainsi que les émissions choisies ou éliminées. Le programmeur est formé de deux éléments: un récepteur pour les stations locales et un récepteur pour les stations éloignées; ce dernier comprend les interrupteurs, le clavier, les affichages et les circuits électroniques nécessaires pour réaliser les fonctions de programmation et contrôler le récepteur pour les stations locales. La mise en marche de ce dispositif déclenche un mécanisme d'entrée des codes; on peut composer sur le clavier un code de trois chiffres à des fins de censure pour empêcher les enfants de jouer avec le téléviseur. Seuls ceux qui connaissent le code peuvent modifier la programmation. Si on ne compose pas le bon code, rien ne se produira. Le programmeur ne peut être breveté; sa protection réside dans le fait que la microplaquette ne peut être déchiffrée par un autre programmeur et qu'une personne devrait consacrer de six à huit mois à la préparation d'une autre microplaquette. Écrire à M. M.E. Weisberg, Inventors Licensing and Marketing Agency, P.O. Box 251, Tarzana, California 91356 et faire parvenir une copie de votre correspondance initiale au: Consul et délégué commercial, Consulat du Canada, Suite 1310, Three Parkway Building, Philadelphie, Pa. 19102.

Machine pour le refroidissement accéléré des plaques lourdes

Le détenteur exclusif français d'une licence pour la machine de refroidissement accéléré des plaques lourdes de l'aciérie USINOR présentement en service à Dunkerque désire accorder, à son tour, une licence pour l'exploitation de la machine au Canada. Le fabricant français fournira des données et une aide techniques pour établir les plans de projets qu'il contrôlera et approuvera. Sous la direction du cessionnaire de licence, la firme canadienne devra employer ses propres méthodes de fabrication en utilisant les composants et matériaux locaux et en répondant aux exigences de ses clients à moins que les caractéristiques du procédé ne soient modifiées ou que le délai de fabrication n'augmente excessivement. La machine est constituée de neuf paires de rouleaux disposés en deux rangées et capables de tremper

steel to the core is 30°C/sec. between the temperatures of 800°C and 400°C in the case of a sheet 30 mm thick which is brought to an initial temperature of 1000°C. The cooling is effected by the forced circulating of water at low pressure over both sides of the sheet. This machine can achieve a production of up to 70 sheets an hour. It can be installed either behind a tempering furnace or in a rolling line, in which case the hot untempered sheets can be passed directly over the line. Write: Société Bertin & Cie, B.P. 3, Zone Industrielle des Gâtines, 78370 Plaisir, France and send a copy of your initial correspondence to: Commercial Division, Canadian Embassy, 35 Avenue Montaigne, 75008 Paris, France.

Synthetic Resin-Bonded Roofing Tiles

West German inventor offers a know-how license to a Canadian company for the manufacture of: 1) synthetic resin-bonded roofing tiles based on silica sand, phenolic resin, pigments and additives and 2) insulating tiles using waste glass fibre (no additional additives). Patented in ten countries (none in Canada). Advantages claimed are: one-third the weight of conventional clay tiles; wind resistant in spite of lower weight; head interlocking to prevent rain and snow penetration; colour resistant; freeze proof; shape resistant; complete impermeability; excellent electric insulation; no efflorescence (moss and algae are avoided as the tiles are not attacked by salts or sulphur); energy saving (clay tiles baking time is approximately 60 hours up to 1200° while the synthetic resin-bonded tiles take seven hours up to 180°); fireproof (there is no danger of flashing nor fire). In the case of strong heat, the tiles show a gradual carbonizing of the resin components. Then the tiles fall together without ignition. Write: Freidrich Wilhelm Lippenberger, 8860 - Nordington, Flurstr. 2A, Germany and send a copy of your initial correspondence to: Canadian Consulate General, Immermannstrasse 3, Düsseldorf, Germany.

Needle for Muscle Biopsy

Czechoslovak Licensing Agency offers a know-how license to a Canadian company for the manufacture of a biopsy needle currently used in diagnosis and observation of therapeutical results and in clinical experimental research by the Institut klinické a experimentální medicíny, Praha 4 - Krc, Videnska 800. The needle, which has been clinically tested over a long period is composed of two basic parts - 1) a handle and spring mechanism; 2) the needle with withdrawal tip. The spring mechanism is created by the spring located in the sleeve of the handle. The spring is attached to the handle terminal and to the piston. The needle is fixed to the piston

l'acier en tôles d'une épaisseur de 10 à 50 mm, d'une largeur de 1,5 à 4,2 m et d'une longueur de 5 à 16 m. La rapidité du refroidissement au cœur de l'acier est 30 degrés C/seconde entre les températures de 800 degrés C et 400 degrés C dans le cas d'une tôle de 30 mm portée à une température initiale de 1 000 degrés C. Le refroidissement s'effectue par la circulation forcée d'une lame d'eau sous basse pression sur les deux faces de la tôle. La machine peut traiter jusqu'à 70 tôles à l'heure. On peut l'installer soit derrière un four à tremper ou sur une chaîne de laminage; dans ce dernier cas, les tôles chaudes non trempées peuvent passer directement sur la chaîne. Prière d'adresser les demandes de renseignements à la Société Bertin et Cie, B.P. 3, Zone Industrielle de Gâtines, 78370 Plaisir (France). Veuillez faire parvenir copie de votre correspondance initiale à la Division Commerciale, Ambassade du Canada, 35 Avenue Montaigne, 75008 Paris (France).

Tuiles de toitures composées de résine synthétique

Un inventeur ouest-allemand offre sous licence, à une société canadienne, le savoir-faire concernant la fabrication de: 1) tuiles de toitures faites de sable de silice, de résine phénolique, de pigments et d'additifs et 2) de tuiles isolantes à base de déchets de fibres de verre (aucun additif supplémentaire). Ces produits sont brevetés dans 10 pays (pas au Canada) et offrent les avantages suivants: poids égal au tiers des tuiles d'argile de type conventionnel; bonne résistance au vent malgré leur poids plus léger; emboîtement pour empêcher la pénétration de la pluie et de la neige; conservation de la couleur; à l'épreuve du gel; excellente isolation contre l'électricité; antimoississure (aucun risque de mousse ou algues puisque les tuiles sont à l'épreuve des sels et du soufre); économies d'énergie (le temps de cuisson des tuiles d'argile est environ de 60 heures à 1 200° alors que celui des tuiles composées de résine synthétique n'est que de 7 heures à 180°); ignifugité (aucun danger d'étincelle ou de feu). En cas de forte chaleur, les tuiles subissent une carbonisation graduelle des composants de la résine). Veuillez écrire à Freidrich Wilhelm Lippenberger, 8860 - Nordington, Flurstr. 2A, Allemagne et envoyer une copie de votre correspondance initiale au Consulat général du Canada, Immermannstrasse 3, Düsseldorf, Allemagne.

Aiguille pour la biopsie musculaire

Une agence tchécoslovaque de cession de licences offre à une société canadienne le savoir-faire technique requis pour la fabrication d'une aiguille de biopsie qui sert actuellement à la diagnostique et à l'observation des résultats thérapeutiques ainsi qu'aux recherches cliniques expérimentales à l'Institut klinické a experimentální medicíny, Praha 4 - Krc, Videnska 800. Cette aiguille, longuement éprouvée dans les cliniques, comporte deux pièces principales - 1) un mécanisme manche et ressort; 2) l'aiguille avec pointe rétractable. Le ressort, situé dans la gaine du manche, est relié au bout du manche ainsi qu'au piston. L'aiguille est fixée au piston et traverse la fermeture du manche, qui tient également la gaine extérieure

and passes through the closure of the handle which also holds the outer sleeve of the needle with exchangeable withdrawal tip. The sleeve of the holder also contains a trigger led via the trigger plug in the groove of the handle sleeve where the plug of the trigger is attached to the piston. The needle is ready for use when the trigger is shifted forward in the direction of the needle to the stop where it is secured by a turn to the left. The mechanism is released by a turn of the trigger to the right. The simple release permits concentration on the manipulation of the needle while the dissection proper is performed by the spring. This permits unlimited manipulation with the needle and the spring secures rapid dissection of the tissue. Other advantages: simple and easy handling by only one person; possibility of exchanging the sample tip according to the depth of the biopsy and the required size of the tissue specimen; enables withdrawal from different layers independent of the layers of subcutaneous fat and for taking specimens of it; reduces traumatization of patient due to the fast action; the patient need not be hospitalized; operating theatre is not needed. Write: Mr. Jan Volny, Deputy Commercial Director, Polytechna, P.O. Box 834, Pranska 9, 11245 Praha 1, Czechoslovakia and send a copy of your initial correspondence to: Canadian Embassy, Mickiewiczova 6, 125 33 Prague 6, Czechoslovakia.

Level Control Process

British research and development corporation is offering the Canadian manufacturing rights to a level control process utilizing a feed forward configuration to control the peak amplitudes of a speech-channel signal. Level control is achieved by adjusting the channel gain at zero-crossing instants so that each half cycle of the waveform is sealed up to a maximum level. Since the gain setting must anticipate the level of the peak, the process requires a feed forward function with delay in the signal path. The delay must be greater than a half cycle of the lowest frequency to be transmitted. A noise threshold is incorporated in the system to prevent noise in the speech-off periods to become accentuated. Write: Mr. Roy Easson, National Research Development Corporation, Kingsgate House, 66-74 Victoria Street, London, SW1E 6SL, England and send a copy of your initial correspondence to: Commercial Division, Canadian High Commission, One Grosvenor Square, London, W1X 0AB, England.

Boat Anchor

American intermediary organization offers the manufacturing and marketing rights in Canada for an anchor (patent pending) which is claimed to reset readily if the boat swings with the current; to be easily retrieved by riding the boat over the anchor, and go into and out of the water in a safe inverted fluke position. The anchor has a sliding ring

de l'aiguille avec pointe rétractable échangeable. La gaine du manche contient aussi une gâchette dirigée par un bouchon dans la coche de la gaine du manche, où il est fixé au piston. L'aiguille est prête lorsque la gâchette est poussée dans le sens de l'aiguille jusqu'à la butée, où elle est enclenchée par un tour à gauche. Le mécanisme est dégagé par un tour à droite. Ce dégagement simple permet au biopsiste de s'appliquer entièrement aux manipulations de l'aiguille tandis que la dissection proprement dite est exécutée par le ressort. L'aiguille se prête donc à une manipulation sans limite et le ressort assure la dissection rapide du tissu. Autres avantages: "Maniement simple et facile par une seule personne; possibilité d'échanger le porte-échantillon selon la profondeur de la biopsie et les dimensions requises du spécimen de tissu; possibilité de tirer des échantillons de diverses couches de graisse sous-cutanée indépendamment de leur épaisseur; traumatisation réduite du sujet grâce à l'action rapide; le sujet se passe d'hospitalisation et le biopsiste n'a pas besoin d'une salle d'opération. Écrire à M. Jan Volny, sous-directeur commercial, Polytechna, B.P. 834, Pranska 9, 11245, Praha 1, Tchécoslovaquie, et faire parvenir copie de votre correspondance initiale à l'Ambassade canadienne, Mickiewiczova 6, 125 33 Prague 6, Tchécoslovaquie.

Méthode de contrôle de fréquences vocales

Une société britannique de recherche et développement offre les droits d'exploitation au Canada d'une méthode faisant appel à une configuration d'alimentation pour contrôler les amplitudes maximales d'un indicateur de fréquences vocales. Le contrôle s'obtient par l'ajustement de la variation de fréquence au point mort, de sorte que chaque demi-cycle de la courbe soit fixé à son niveau maximal. Etant donné que la fixation de la variation doit prévoir le niveau de l'amplitude maximale, la méthode de contrôle exige une fonction d'alimentation avec décalage de la courbe de la fréquence. Ce décalage doit être supérieur à un demi-cycle de la plus basse fréquence à transmettre. Le système comporte un seuil de bruit intégré qui sert à empêcher l'amplification du bruit en période hors fréquence vocale. Écrire à: Monsieur Roy Easson, National Research Development Corporation, Kingsgate House, 66-74 Victoria Street, London, SW1E 6SL, England et faire parvenir une copie de votre correspondance initiale à la: Division commerciale, Haut-commissariat du Canada, 1 Grosvenor Square, Londres, W1X 0AB, Angleterre.

Ancre de navire

Un intermédiaire américain offre les droits de fabrication et de commercialisation au Canada d'une ancre (brevet en instance d'acceptation) qui est réputée se replacer facilement si le navire oscille avec le courant, être facile à remonter, en amenant le navire au-dessus de l'ancre et entrer et sortir de l'eau de façon sécuritaire, avec les pattes renversées. L'ancre a un organeau qui peut glisser passé le centre de gravité, est légère

past the center of gravity; is lightweight (made of cold-dipped galvanized high tensile steel, chrome or stainless steel) and has a 45° setting angle with a swing of 90°. Overall lengths, widths and fluke lengths are: 16"x12"x10"; 23"x15"x12"; 27"x16"x16"; 30"x20"x18"; 34"x24"x24". When the anchor reaches bottom, the top of the anchor hits first, causing the flukes to swing out and start its setting action. The slip ring slides to the top of the anchor setting it against the pull of the boat. During tide and directional changes the slip ring will slide down the anchor stock and effectively flip the anchor, resetting the flukes. The slip ring then slides to the top of the anchor setting it against the pull of the boat. Accidental release is prevented by the unique design of the slip ring stock. To release the Huntly Sure-Safe anchor, the boat is moved towards the anchor while taking in the slackline. The slip ring will slide down the anchor, past the center of gravity, and will reverse the setting action. This reversing action ensures the anchor from snagging since it is leaving in the same direction that it has entered. The inverted fluke position releases any mud, weeds, or bottom from the anchor and causes a planing action that seems to "float" the anchor to the surface for easy retrieval. The reversed flukes are also in a position that will not damage a boat. See illustration. Write: Mr. J.L. Hester, President, International Trade Operations, Inc., 6020 Richmond Highway, P.O. Box 7068, Alexandria, Va. 22303 and send a copy of your initial correspondence to: Canadian Consulate, 3 Parkway Building, Suite 1310 Philadelphia, Pennsylvania 19102.

High Protein Snack Foods

Case 5493

A simple two-step method of producing nutritious deep-fried chips from the flour of certain legume seeds. The product is crisp and puffy, and its initial blandness makes it easy to flavor. Write: 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, Ontario K1A 0H5.

Moisture Detecting Sensor

Case 6254

A complete package of 'know-how' for manufacturing a small low-cost humidity sensor is available for licensing. Printed circuit technology requiring tolerances of 1/2 thousandth of an inch is involved. Write: 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, Ontario K1A 0H5.

(fabriquée d'acier hautement résistant galvanisé par bain à froid chromé ou inoxydable) et son angle de prise est de 45°, avec une rotation de 90°. L'ancre se fabrique dans les longueurs, largeurs et longueurs de pattes suivantes: 16"x12"x10", 23"x15"x12", 27"x16"x16", 30"x20"x18" et 34"x24"x24". Lorsque l'on jette l'ancre, c'est le sommet qui touche le fond le premier, ce qui fait basculer les pattes et débiter la prise. L'organeau glisse alors vers le sommet et la traction exercée par le navire achève de fixer l'ancre. Avec la marée et les changements de direction, l'organeau glisse le long de la tige de l'ancre et la fait basculer, ce qui replace les pattes; l'organeau remonte alors et fixe à nouveau l'ancre. La conception unique de la tige sur laquelle glisse l'organeau empêche l'ancre de se libérer accidentellement. Pour récupérer l'ancre Huntly Sure-Safe, on amène le navire au-dessus de l'ancre en ramenant le mou. L'organeau descend alors le long de sa tige, passe le centre de gravité et dégage la prise. Ce renversement empêche l'ancre d'accrocher car elle remonte dans la même position qu'elle est descendue. Les pattes renversées ne remontent pas de boue ou des algues et il s'exerce un effet de planage qui semble faire flotter l'ancre jusqu'à la surface, ce qui la rend facile à récupérer. La position inversée des pattes leur permet également de ne pas endommager le navire. Voir l'illustration. Pour plus de renseignements, écrivez à M. J.L. Hester, Président, International Trade Operations, Inc., P.O. Box 7068, Alexandria, Va. 22303. Veuillez faire parvenir une copie de votre correspondance initiale au: Consulat du Canada, 3 Parkway Building, Suite 1310, Philadelphia, Pennsylvania 19102.

Aliments à grignoter à haute teneur protéique

Cas 5493

Méthode simple de préparation en deux étapes de croustilles nutritives par friture à partir de la farine de certaines graines de légumes. Il s'agit d'un produit croustillant et gonflé auquel on peut donner facilement la saveur désirée puisqu'il est au départ insipide. Écrire à la: 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 (Ontario), K1A 0H5.

Détecteur d'humidité

Cas 6254

Offre de licence pour un kit complet servant à la fabrication d'un capteur détecteur d'humidité à bas prix. Cet appareil applique la technologie des circuits imprimés avec tolérances de 1 millième de pouce. (Aucune information sur le brevet – les demandes de renseignements seront transmises à l'organisme offrant). Écrire à la: 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 (Ontario), K1A 0H5.

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Un résumé de l'invention est publié dans la langue de la demande de brevet, soit en anglais, soit en français. Les intéressés peuvent se procurer un exemplaire du brevet au prix de \$2.00 en écrivant au Commissaire des brevets, Ottawa-Hull, Canada K1A 0C9.

Process for Producing Raw Copper Continuously in One Stage from Unrefined Sulfidic Copper Concentrate or Ore

1,057,061

Méthode de fabrication de cuivre brut en continu et en une seule étape à partir de concentré ou de minerai de cuivre sulfuré non raffiné

Process for producing raw copper continuously in one stage from sulfidic copper concentrates and ores containing impurities such as lead, antimony, bismuth and arsenic, by feeding finely-divided copper concentrate and ore and oxygen or oxygen-enriched air into the upper part of the reaction zone to produce a suspension in the reaction zone, the suspension being fed, at a high temperature, downwards in the reaction zone in order to cause the suspension to impinge against the melt below the reaction zone, while the gases and flying dusts are directed aside, the flying dusts being possibly recycled into the upper part of the reaction zone, and slag and raw copper, which is recovered, are separated from the melt, wherein so much oxygen or oxygen-enriched air is fed into the reaction shaft in proportion to the copper concentrate and ore that the concentrate and ore is oxidized in the reaction zone to such a degree that a melt containing only raw copper and slag is produced below the reaction zone. Write: Outokumpu Oy, Outokumpu, Finland.

Method and Apparatus for Regulating the Fat Content of Milk

1,057,116

Méthode et appareil pour régler la teneur en matières grasses du lait

A method and apparatus for regulating the fat content of milk and cream, by separating whole milk into skim milk and cream, mixing part of the cream with the skim milk, determining the respective densities of the skim milk and of the mixture, and controlling the mixture ratio as a function of the difference between these densities by means of an electronic control unit connected to a dosing pump. The fat content of cream may also be regulated by using a pressure control valve, and the fat content of milk intended for cheese production may be regulated in proportion to the nonfat solids content. Write: Gebrüder Ott A.G., 3076 Worb-Dorf, Canton of Berne, Switzerland

Rotary Piston Engine

1,057,122

Moteur à pistons rotatifs

A cylinder wheel having many cylinder cavities is in meshing engagement with a piston wheel member having a plurality of piston elements between which segment-like cavities are provided. The meshing engagement of said wheel members provides expanding and contracting working chambers in the cylinder cavities of said cylinder wheel member as well as in the segment-like cavities of said piston wheel member. A disc-like commutator valve rigidly connected to said piston wheel member has two types of through passages, the first type of which connects the working chambers in said cylinder cavities of the cylinder wheel member to fluid inlet and outlet means of a casing rotatably supporting said wheel members and the second type of which connects the working chambers both in said cylinder cavities of the cylinder wheel member and in the segment-like cavities of said piston wheel member to said inlet and outlet means for a fluid. Thus, on both sides of the piston elements projecting into the cylinder cavities impulses are generated to drive one of said wheel members connected to a driving shaft. Write: Wolf Klemm, Wiesenweg 4, 8023 Pullach, Federal Republic of Germany

Installation permettant de brûler les émulsions eau-huile soluble-fuel

1,057,129

Installation for Burning Water-Soluble Oil-Fuel Emulsions

Installation destinée à brûler les émulsions du type eau-huile soluble-fuel, cette installation comportant une bache de réserve; un dispositif pour alimenter en liquide du type eau-huile soluble cette bache; au moins un brûleur; un conduit s'étendant entre la bache de réserve et le brûleur, au moins une pompe sur le conduit afin d'amener le liquide de la bache de réserve au brûleur; un dispositif pour alimenter en fuel le liquide dans le conduit en un endroit entre la pompe et le brûleur. Un dispositif d'émulsification est positionné entre le dispositif d'alimentation en fuel et le brûleur afin de former une émulsion de fuel et de liquide.

Un dispositif de mesure de température est positionné entre le dispositif d'émulsification et le brûleur afin de mesurer la température de l'émulsion à la sortie du dispositif d'émulsification. Et, une électrovanne régulatrice est positionnée entre la pompe et le dispositif d'alimentation en fuel et commandée par le dispositif de mesure de la température, de façon à réguler la quantité de liquide envoyée au dispositif d'émulsification en fonction de la température de l'émulsion à la sortie de ce dispositif. Écrire: Société Anonyme Automobiles Citroen, 117/167 Quai André Citroen, Paris, France

Position Responsive Two Ways Ball Valve

1,057,157

Robinet à flotteur à deux voies assujetti à la position du poiteau

This disclosure relates squeezably functioning dispensing and measuring containers, particularly to their valves. A submersible, position and pressure responsive valve is disclosed, specially disposed within a squeezably functioning container, the valve, comprising a tubular housing, a ball and two ball seats located on the opposite ends of the tubular housing, whereby the valve or valves keep the container closed in upright and downward position, reduce accidental spilling, and promote cleaning of clogged or contaminated air inlet. Write: L. Laslo Por, P.O. Box 37 Christiansted, St. Croix, U.S. Virgin Islands 00820, U.S.A.

Fibrous Tube for Membrane Filtration with a Tearing Member

1,057,207

Tube en matériau fibreux avec membrane de filtration et joint d'arrachage

A non-woven tube having fixed on its inner side a membrane for membrane filtration, with a tearing element present in the non-woven tube is disclosed. The tearing element consists preferably of a longitudinal welding joint obtained by ultrasonic welding. The presence of the tearing element or member greatly facilitates removal of the membrane from the tube when the membrane is no longer useful. Write: Wafilin B.V., 251 Handellan, Zwolle, Netherlands

Fixation and/or Support Means

1,057,267

Dispositifs de fixation ou de soutien

Fixation of an artefact to a support means, such as of a reinforced plastics compressor blade or a ceramic turbine blade to a rotary hub member, or of an electric insulator or longitudinally reinforced plastics material to a transmission tower, the artefact being subject at least at times to longitudinal shear stresses, is effected through duplex fibre means, whereby said stresses are transferred to the support means through said duplex fibre means. Write: National Research Development Corporation, 66-74 Victoria Street, London SW1, England

Prefabricated Hollow Structure Units

1,057,480

Éléments de construction creux et préfabriqués

This is an innovation dealing with the structural enclosing of space by the use of prefabricated or preformed panels assembled in an edge to edge relationship to form enclosing surfaces of either flat or approximated curve (simple or compound) in such a manner as to provide a hollow box section or duct that extends and communicates along all edges of said panels on assembly. A characteristic of this box section so formed is that one or more sides of the section so formed are removable without affecting the structural strength detrimentally. The advantages of this structural form are twofold, the ducts so formed are a contributant to structural strength due to their box section and because of their design (one or more removable plate sections) they provide the unique feature of allowing changes to be made in the services therein contained (electrical, plumbing, heating and airconditioning) without costly structural modification or change. A structure so constructed has increased adaptability to need, increased versatility and a marked reduction in maintenance costs generated by the normal servicing of utility or service systems due to the provided access to the entire distribution within the structure. Write: Benny R. Jensen, 519 West Gore Street, Nelson, British Columbia, V1L 3H2, Canada

Method of Manufacturing a Glass Object by Molding and Sintering Glass Powder

1,057,502

Méthode de fabrication d'un objet en verre par moulage et frittage de poudre de verre

In the disclosed method of manufacturing glass objects by molding and sintering glass powder, a layer of colloidal silica is applied onto the surface of the glass particles of the powder prior to molding and sintering. Write: Arbman Development AB, Kungsgatan 62, Stockholm, Sweden

Process for Treating Sulfidic Complex and Mixed Ores, Concentrates and Technical Precipitates

1,057,510

Procédé de traitement des minerais sulfureux complexes et mélangés, des concentrés et des précipités techniques

A process for converting, into an easily removable form, the impurities, such as arsenic, antimony and bismuth, present in substantially sulfidic complex and/or mixed ores and concentrates or technical precipitates containing similar minerals, wherein the minerals present in the raw material are decomposed and rearranged at a temperature of approx. 500-900°C, preferably 600-800°C, and under a high partial pressure of elemental sulfur, whereby the new compounds produced by the rearrangement of the impurities are optionally evaporated at least partially at the same stage. Write: Outokumpu Oy, Outokumpu, Finland.

Oxygen Containing Nb₃Ge Superconductors

1,057,534

Supra conducteurs Nb₃Ge contenant de l'oxygène

The structural quality of niobium germanide as a high-transition-temperature superconducting material is substantially improved by the presence of about 5 at. % oxygen. Niobium germanide having this oxygen content may readily be prepared as a bulk coating bonded to a metallic substrate by chemical vapor deposition techniques. It is useful in direct current super-conducting power lines. Write: United States Department of Energy, Washington, D.C. 20545, U.S.A.

Solar Collector with Improved Thermal Concentration

1,057,609

Capteur d'énergie solaire avec concentration thermique améliorée

Reduced heat loss from the absorbing surface of the energy receiver of a cylindrical radiant energy collector is achieved by providing individual, insulated, cooling tubes for adjacent parallel longitudinal segments of the receiver. Control means allow fluid for removing heat absorbed by the tubes to flow only in those tubes upon which energy is then being directed by the reflective wall of the collector. Write: United States Department of Energy, Washington, D.C. 20545, U.S.A.

Kit for the Preparation of 99MTC Red Blood Cells

1,057,656

Nécessaire pour la préparation d'érythrocytes marqués d'un isotope, le 99MTC

A method and sample kit for the preparation of 99MTC-labeled red blood cells in a closed, sterile system. A partially evacuated tube, containing a freeze-dried stannous citrate formulation with heparin as an anticoagulant, allows whole blood to be automatically drawn from the patient. The radioisotope is added at the end of the labeling sequence to minimize operator exposure. Consistent 97% yields in 20 minutes are obtained with small blood samples. Freeze-dried kits have remained stable after five months. Write: United States Department of Energy, Washington, D.C. 20545, U.S.A.

Apparatus for Degassing a Condenser Operating in a Thermal Cycle

1,057,674

Appareil pour dégager un condenseur à cycle thermique

A composite structure operating under a vacuum for condensing steam discharged from a turbine unit of a thermal power plant and de-gassing the condensate prior to feeding it back to the boiler for recycling comprises a condenser casing having an inlet for the steam which passes downwardly over a cooling tube bundle to effect its condensation. The condensate is then passed through a three stage de-gasifier to remove non-condensables such as oxygen. The first stage injects steam issuing from the subsequent stages into a condensate flowing downwardly on opposite sides of a gabled roof located beneath the tube bundle to accomplish an initial de-gasification; the second stage injects steam into a first tank filled by condensate collected from the roof to accomplish further de-gasification by the bubbling effect produced by the steam injection; and the third stage injects steam into a layer of the condensate flowing across a weir from the first tank into a reserve tank to accomplish final de-gasification. Write: Compagnie Électro-Mécanique, 12 rue Portalis, 75 Paris 8^e, France

Scooping Drum Type Sand Washer

1,057,703

Tambour à godets pour laver le sable

A sand washer for washing muddy sand charged into a rotating drum with the supply of water comprises a plurality of annular chambers formed in the drum, a plurality of scooping plates held within each of the annular chambers, draining members provided for the scooping plates, and chutes secured to a base and associated with the annular chambers independently of the drum motion, so that the muddy sand is washed and the washings drained off a plurality of times. Write: Masahisa Masuda, 3542-1, Oaza-Kitatakanabe, Takanahe-cho, Koyugun, Niyazaki Pref., Japan

Mountable and Dismountable Clothes Hanger Bar

1,057,707

Barreau posable et déposable pour porte-manteaux

A clothes hanger bar is readily mountable and dismountable between a wall and a horizontal member, such as shower curtain rod

or upper edge of a shower stall door. The hanger bar consists of a clothes-supporting portion for disposition horizontally having a bracket at one end that engages the horizontal member and also prevents sideways rotation. The other end of the rod is of Z shape with the clothes-supporting portion as an extended lower leg while the upper leg carries a wall-engaging member. The point of contact with the wall is above the point of intersection of the axis of the clothes-supporting portion with the wall, so that the clothes-supporting portion is mounted in suspension and the weight of the clothes forces the wall-engaging member into firmer contact with the wall. The wall-engaging member may comprise a sleeve that can accommodate extension members of different lengths to adjust the effective length of the hanger bar. Write: John M. Schill, 208 Samuel Street, Kitchener, Ontario N2H 1R6, Canada

Game Board having Spaced Openings and Displaceable Balls

1,057,785

Table de jeu à ouvertures échelonnées, et balles déplaçables

Apparatus for playing a game utilizing a plurality of balls and a playing device, the device comprising an upper board having spaced openings to receive one of the balls, a lower board positioned vertically below the upper board, ball receiving positions formed by projections depending from the upper board in co-operation with projections upstanding on the lower board, the projections of the upper and lower boards being provided to permit a rejected ball to pass from the vicinity of a ball receiving position to a collecting tray, and the projections on the upper and lower boards, or other projections, serving to prevent a rejected ball from entering another ball receiving position. Write: Salman H. Balas, Little Linden, Montacute Gardens, Tunbridge Wells, Kent TN4 8HG, England; Clifton Q. Keiller, Little Brook House, Bagged Dog Lane, Waldron, Sussex, England, U.K.

Combination of Interlocking Security on Chain Door Guards

1,057,792

Système de verrouillage pour portes munies de chaînes de sûreté

A chain door guard assembly is disclosed which includes a guard plate having a raised main body section and extending flanges for attaching the guard plate to a door. The main body section of the guard plate defines a long slot and a plurality of entry slots which permit insertion of a plurality of chain heads into the long slot. Two independent entry slots, one in the form of a vertical slot, for accepting a chain head in one instance and a chain-attached slide bolt in the other, are also provided. The insertion of the slide bolt attachment into the opening at the end of the long slot adjacent to the jamb is restricted by an abutment on said slot, while beyond said abutment, the long slot extends past the plurality of the entry slots into it and past the main slot into the vertical slot. The assembly is completed by a bracket to which the chain is rotatably anchored, for attachment to the door jamb. The resulting chain door guard assembly affords selectively varying degrees of security and convenience, achieved by the insertion of various chain heads into various entry slots. (It should be noted that this chain heads and a sliding bolt which are linked in this interlocking innovation to provide a variation of safeguards up to the utmost security, with the force of a bolt and a bar.) Write: Bernard C. Segal, 150-6 J. Dreiser Loop, Bronx, New York, 10475, U.S.A.

Generator for Spelled Speech and for Speech

1,057,855

Générateur de signaux-phonèmes ou signaux-langage

A spelled speech or speech generator consists of a central processing unit (CPU), a first memory storing operating program signals for the CPU, a second memory storing signals representative of predetermined portions of phonemes and repetition counts therefor, an address bus interconnecting the CPU and an address input of each memory, an audio output port driving a digital to analog converter for providing an audio output signal, and a data bus interconnecting the input of the audio output port to an output of the second memory. The CPU is actuated to serially address predetermined ones of memory locations, whereby said phoneme-portion signals can each be repeated a number of times designated by said repetition count signals in a sequence and applied to the input of the audio output port to provide a complete phoneme signal. The size of the memory can be minimized by storing only a few partial phonemes. Write: Michael P. Beddoes, 3507 West 49th Avenue, Vancouver, British Columbia V6N 3T6, Canada; Ching Y. Suen, 127 De Charenpe, St. Lambert, Quebec J4S 1K2, Canada

Stand Up Toilet

1,057,904

Toilette pour l'utilisation en position debout

A stand up toilet for handicapped persons who are unable to bend at the waist and incapable of sitting on a conventional form of toilet. The stand up toilet includes four upright legs that are connected together by a horizontal rectangular support plate. The legs and plate are releasably connected so that the device may be easily assembled and disassembled. The support is located below upper ends of the legs. An upwardly open container is loosely received between the upwards projections of the legs and rests loosely against the support. The container includes an elongated upwardly facing opening and provides an upward and

outwardly projecting deflector flange along a rear side thereof. The container is loosely held by the legs and support so it may be easily removed and replaced. An adjustment feature enables upward and downward adjustment of the container by elevationally changing the support level. Write: Robert W. England, Rt. 3-Box 356, Cheney, Washington 99004, U.S.A.

Preparation of High Temperature Gas-cooled Reactor Fuel Element

1,057,919

Préparation d'éléments combustibles pour réacteur à température élevée refroidi par gas

This invention relates to an improved method for the preparation of fuel rods for a high temperature, gas-cooled reactor. Graphite tubes are loaded with a plurality of green compacts consisting of a dispersion of nuclear fuel oxide or carbide microspheres coated with pyrolytic carbon within a carbon matrix. Graphite plugs are inserted into both ends of the graphite tubes. By carbonizing the fuel rods in a pressurized autoclave which maintains a compressive stress on the fuel particles until the matrix strength is reduced, a reduction in the degree of internal stress occurs in the body of the fuel rods resulting in a reduced incidence of rupture of the pyrolytic-carbon coatings on each fuel microsphere. In addition, the pitch coke yield of the fuel rods obtained by the present method is about three times that normally obtained in rods carbonized in packed Al_2O_3 powder, and about 1-1/2 to 2 times that obtained when carbonizing in graphite tubes at atmospheric pressure. Write: United States Department of Energy, Washington, D.C. 20545, U.S.A.

^{82}Sr - ^{82}Rb Radioisotope Generator

1,057,946

Générateur de radioisotopes ^{82}Sr - ^{82}Rb

An improved method of generating ^{82}Rb with a separation factor of at least 10^5 in respect to radioactive ^{82}Sr and having yields of about 80 percent comprising: a. preparing an ion exchange column resin consisting of a 100-200 mesh resin which is composed of a styrene-divinylbenzene copolymer with attached iminodiacetate exchange groups, b. charging the said ion exchange column with a basic solution containing ^{82}Sr , and c. eluting the ^{82}Rb from the said column using a 0.1 molar ammonium hydroxide/ammonium chloride buffered solution. Write: United States Department of Energy, Washington, D.C. 20545, U.S.A.

Process for Solidifying Nuclear Materials

1,057,947

Procedé de solidification de substances nucléaires

Radioactive liquid materials or wastes are contacted with complex anions having the general formula $(M_xO_yH_z)^-$ where M may be titanium, niobium, tantalum or zirconium, and the radionuclide ions in the material react and form a precipitate with the complex anions. This precipitate, upon separation and subsequent heating to from about 100° to about $1000^\circ C$, forms chemically stable, complex oxide mixtures. Write: United States Department of Energy, Washington, D.C. 20545, U.S.A.

Continuous Air Drying in Alternate Dessicating Towers

1,057,950

Dessication continue de l'air dans des tours

The present invention relates to a method and apparatus for continuously removing moisture from especially compressed air. The compressed air is brought to pass a moisture-absorbing regeneratable agent in a plurality of drying towers. Said drying towers being alternatively connectable to said flow of air so that drying towers not in use could be subjected to a regeneration process and cooled before reuse. Write: Alf J. Hamrin, Norevägen 54B, S-182 64 Djursholm, Sweden

Hone

1,057,957

Pierre à aiguiser

A hone adapted to be used with a domestic electric knife. The knife comprises an electric motor compartment and a reciprocable drive from the motor to a take off point adjacent one end of the motor compartment. There are attachments on the drive to enable reciprocable drive of blades from the take off point. The hone comprises two carrying arms each having at a first end engagement means to engage the attachment in the motor compartment at the take off point. A hone member is attached to each carrying arm adjacent a longitudinal edge of that arm — the arms are held together as they reciprocate when driven by the electric motor. Write: Peter Sawrenko, 5837 Patrick Street, Burnaby, B.C. V5J 3B5, Canada

Precision Circular Saw Blade Grinding Machine

1,057,958

Meule pour affûter les scies circulaires

A grinding machine for sharpening circular saw blade teeth. The machine includes an arbor for supporting a circular saw blade at a pre-selected position relative to a grinding disc. The grinding disc is mounted to a parallelogram linkage that has a tracing pin fixed thereto. Movement of the tracing pin over the surface of a sawtooth-shaped template causes corresponding movement of the grinding disc against a selected sawtooth. Also included is a tooth indexing mechanism whereby precise spacing of the circular saw teeth is obtained. This is accomplished by a tooth spacing pattern mounted to the arbor and by an indexing pawl that facilitates rotation of the arbor in precise increments equal to desired spacing for the teeth of the blade being operated on.

The arbor is pivotably mounted relative to the grinding disc to enable bevel grinding of the tooth surfaces. Write: William J. Lustgraaf, 124 Glacier Drive, Lolo, Montana 59847, U.S.A.

**Programmable Signal Clock with Electronic
Appointments Marking Calendar**

1,057,963

**Horloge à signaux programmable avec
agenda électronique**

In programmable timing apparatus forming an electronic appointments reminder, a support formed by an insertable sheet or an insulating surface receives markings made with conductive material or by punched holes at locations corresponding with predetermined times in a given period. Each marking makes or interrupts an electrical connection between a conductive path and bus-bar. The locations are designated by characters which indicate the respective hours and predetermined intervals in minutes of the given period. Switches driven by a rotating cam disc derive sequential timing signals at predetermined intervals during the given period. Apparatus is provided for automatically and sequentially responding to correspondence between the timing signals and the predetermined time represented by the respective marking to provide a respective time related output signal which is used to operate an electronic alarm. Programming positions may be provided in which conductors define gaps which are closed by conductive marking material which is applied when a number is written into the programming position. Coded signals are thereby derived representing the number which has been written. Electronic timing displays are also used and a memory may be incorporated to store data read from markings made on the support. Write: Nikolay Samreus, 15 Kyrkogatan, Sundbyberg, Sweden

Soil Injection Machine

1,057,965

Injecteur de liquide dans le sol

A machine for the injection of liquid into the surface of soil comprises a sledge having a surface compacting base bounded by two runners, the lower surface of each runner being below the level of the compacting base. The base has a transverse slot dimensioned to receive a hollow pressurisable injection bar which has a lower face equipped with injection orifices, the lower face being flush with the compacting surface of the compacting base when the bar is in position. The machine is particularly useful for the injection of a soil stabilising medium into soil whilst the soil is compacted. By this means it is possible to produce a compacted raised strip of soil which is smooth and stable and which in desert conditions prevents a build up of sand on roads. The invention includes a method for stabilising soil by forming a compacted raised strip of soil and injecting a soil stabilising medium into said strip to bond the compacted soil. Write: The International Synthetic Rubber Company Limited, Brunswick House, Brunswick Place, Southampton, Hampshire, England, U.K.

Oil Production Processes and Apparatus

1,058,070

Méthode et appareil pour l'extraction du pétrole

The invention relates to an oil recovery string and oil extraction process for use in the recovery of oil from natural oil-bearing formations, in particular unconsolidated tar sands, with improved efficiency and lower installation and operating costs. The invention utilizes an oil recovery pipe with distribution of heat into the formation from the pipe. One important discovery underlying the invention is that when employing thermal energy to cause flow of oil within an oil-bearing formation into a collecting pipe, important advantages are achieved if heat is released into the formation at the site of the collecting pipe. In particular, favourable oil recovery rates can be more quickly achieved and long term recovery rates can be improved. By providing an oil recovery string which serves both for oil collection and for heat distribution, the present invention enables these advantages to be realized and in addition makes an important contribution to reduction of costs by reducing the number of drilling or string driving operations required. The invention therefore comprises an oil recovery string for use in recovering oil from a natural oil-bearing formation with the aid of thermal energy supplied by a fluid heating medium, said string comprising a tubular casing within which there is at least one internal passageway along which heated fluid medium for supplying thermal energy to a said formation can be passed, and at least one duct along which oil can flow along the string, said casing having oil entry apertures disposed at intervals therealong, which apertures are in communication with the interior of said duct. Write: Donald B. Vandergrift, 256 Edgemont Place N.W., Calgary, Alberta T3A 2K2, Canada

Disc Record Cleaning Mechanism

1,058,094

Mécanisme de nettoyage de disques

A disc record cleaning mechanism particularly adapted to be used with a disc record player having a hinged cover and arranged to be wholly lifted upon opening of the cover and which responds to opening of the latter, and to an effective weight, to automatically bring the cleaning brush and the carrying arm at the starting position of the latter. In one embodiment, this disc record cleaning mechanism includes a mount, or frame, and an arm; the main structure of each is inexpensively made of a bent rod; the frame adjustably connects to and inside the cover; the frame has a transverse loop and upward portion forming transverse and vertical guides for the arm; a weight is attached to the arm to pull it to the starting position; and a counterweight is adjustable along the arm to adjust the pressure on the brush which is clamped to the arm. In another embodiment, the

effective weight is provided by the arm, the cleaning brush and associated parts which bodily pivot toward the starting position of the arm upon opening of the cover. Write: Pierre Dumas, 978 Lesage Street, St. Jean Chrysostome, County of Lévis, Quebec, G0S 2T0, Canada

Activation of Water Soluble Amines by Halogens for Trapping Radioiodine from Air Streams 1,058,143 **Activation par des halogènes d'amides solubles dans l'eau pour capter l'iode radioactif transporté par des courants d'air**

Gas adsorbent charcoals impregnated with an aqueous solution of the reaction product of a tertiary amine and elemental iodine or bromine are better than 99 percent efficient in trapping methyl iodine¹³¹. The chemical addition of iodine or bromine to the tertiary amine molecule increases the efficiency of the impregnated charcoal as a trapping agent, and in conjunction with the high flash point of the tertiary amine raises the ignition temperature of the impregnated charcoal. Write: United States Department of Energy, Washington, D.C. 20545, U.S.A.

Metallic Sulfide Additives for Positive Electrode Material within a Secondary Electrochemical Cell 1,058,284 **Additifs de sulfures métalliques pour matériau d'électrode positive dans une cellule électrochimique secondaire**

An improved active material for use within the positive electrode of a secondary electrochemical cell includes a mixture of iron disulfide and a sulfide of a polyvalent metal. Various metal sulfides, particularly sulfides of cobalt, nickel, copper, cerium and manganese, are added in minor weight proportion in respect to iron disulfide for improving the electrode performance and reducing current collector requirements. Write: United States Department of Energy, Washington, D.C. 20545, U.S.A.

Micron CO₂ Laser System 1,058,309 **Laser au CO₂ à 16 microns**

Method and apparatus for inducing laser action in CO₂ at a wavelength of 16 microns involving the transition between the 02°0 and 01°0 states. The population inversion between these two states is achieved by pumping to the 00°1 level, suppressing the usual 10.6 micron transition to the 10°0 level and encouraging the 9.6 micron transition, thereby populating the 02°0 level, as the principal prerequisite for 16 micron laser action between the 02°0 and 01°0 levels. Write: United States Department of Energy, Washington, D.C. 20545, U.S.A.

Process for Depositing Conductive Layers on Substrates 1,058,330 **Méthode de dépose de couches conductrices sur des supports**

A process is described for metallizing electronic circuit elements comprising vapor depositing a metal adhesion layer on a circuit substrate, vapor depositing a second metal layer having a good electrical conductivity on the adhesion layer, then oxidizing any of the adhesion layer material which is diffused through the second layer, and thereafter vapor depositing an additional layer of the good conductivity metal over the second layer and the oxidized material. Write: United States Department of Energy, Washington, D.C. 20545, U.S.A.

Dispositif de séparation d'isotopes 1,058,332 **Means for Separating Isotopes**

L'invention concerne un dispositif de séparation d'isotopes. On introduit un gaz contenant les isotopes à séparer dans une enceinte à basse pression munie de fenêtres pour le passage de rayonnements laser. On l'y excite par un rayonnement de fréquence intermédiaire entre les fréquences centrales des deux raies d'absorption des deux isotopes, ces deux raies coïncidant partiellement par élargissement Doppler. Les molécules excitées sont ionisées par un second rayonnement et sont collectées sur deux récepteurs disposés à distance l'un de l'autre et de la zone d'action des rayonnements, ces deux récepteurs étant maintenus à un même potentiel électrique négatif. Le choix de la fréquence du rayonnement d'excitation et de la position des récepteurs est tel que les molécules excitées contenant l'un des isotopes sont surtout celles qui se dirigeaient et continuent à se diriger vers la région où se trouve l'un des récepteurs, les molécules excitées contenant l'autre isotope se dirigeant surtout vers l'autre récepteur. On recueille finalement sur un récepteur un mélange enrichi en l'un des isotopes. Écrire: Compagnie Générale d'Électricité, 54 rue La Boétie, 75382 Paris Cedex 08, France

Transverse Section Radionuclide Scanning System 1,058,333 **Système de balayage en coupe par radionucléides**

This invention provides a transverse section radionuclide scanning system for high-sensitivity quantification of brain radioactivity in cross-section picture format in order to permit accurate assessment of regional brain function localized in three-dimensions. High sensitivity crucially depends on overcoming the heretofore known raster type scanning, which requires back and forth

detector movement involving dead-time or partial enclosure of the scan field. Accordingly, this invention provides a detector array having no back and forth movement by interlaced detectors that enclose the scan field and rotate as an integral unit around one axis of rotation in a slip ring that continuously transmits the detector data by means of laser emitting diodes, with the advantages that increased amounts of data can be continuously collected, processed and displayed with increased sensitivity according to a suitable computer program. Write: United States Department of Energy, Washington, D.C. 20545, U.S.A.

**Beam Limiter for Thermonuclear
Fusion Devices**

1,058,335

**Limiteur de faisceau pour dispositifs à
fusion thermonucléaire**

A beam limiter circumscribes the interior surface of a vacuum vessel to inhibit collisions of contained plasma and the vessel walls. The cross section of the material making up the limiter has a flatsided or slightly concave portion of increased width towards the plasma and portions of decreased width towards the interior surface of the vessel. This configuration is designed to prevent a major fraction of the material sputtered, vaporized and blistered from the limiter from reaching the plasma. It also allows adequate heat transfer from the wider to the narrower portions. The preferred materials for the beam limiter are solids of sintered, particulate materials of low atomic number with low vapor pressure and low sputtering and blistering yields. Write: United States Department of Energy, Washington, D.C. 20545, U.S.A.

Neutron Dosimetry

1,058,336

Dosimétrie de neutrons

A method of measuring neutron radiation within a nuclear reactor is provided. A sintered oxide wire is disposed within the reactor and exposed to neutron radiation. The induced radioactivity is measured to provide an indication of the neutron energy and flux within the reactor. Write: United States Department of Energy, Washington, D.C. 20545, U.S.A.

Glazing for Transmitting Solar Radiation

1,058,438

Capteurs solaires

A glazing unit comprises, in combination, a soda-lime glass substrate having a composition such that its total energy transmittance for solar radiation is greater than that of a similarly dimensioned substrate of ordinary soda-lime glass which contains ferrous oxide. The substrate has a composition which contains iron oxide with substantially all of said iron oxide being ferric oxide, and a metal oxide coating of a composition which transmits solar radiation and at least partially reflects infrared radiation having wavelengths greater than 3μ at least partially covering at least one face of said substrate. Write: BFG Glassgroup, Rue Caumartin, 43, Paris, France

**Heating System Having High-Low Temperature
Limit Controlled Auxiliary Boiler**

1,058,462

**Système de chauffage avec chaudière auxiliaire à
thermostat**

Improvement in a hot fluid conductor heating system comprising a main boiler with a given fluid capacity, a main heating system with a given thermal capacity and a thermostat for actuating the main heater. The improvement involves an auxiliary boiler connected to the main boiler, having less fluid capacity than the main boiler, heated by an auxiliary heater having substantially less thermal capacity than the main heater and with high-low temperature controls which maintain a given temperature range of fluid conductor in the auxiliary and main boiler. In a particular embodiment, the auxiliary boiler continuously maintains the temperature in both boilers within the range of 170 – 212°F. As a result of the constantly maintained elevated water temperature in the main boiler, less time is required for the main boiler burner to heat up the system upon the demand of a room thermostat. Write: Joseph J. Roy, 9811 Rosaryville Road, Upper Marlboro, Maryland 20870; Lorenzo Roy, 81 Hawley Street, Lawrence, Massachusetts 01843, U.S.A.

Rocker Attachments for Folding Chairs

1,058,502

**Accessoires pour transformer les chaises pliables
en chaises à bascule**

Rockers adaptable to be mounted on chairs having different spacings between the legs or legs connected by bars. The rockers are also adapted to be releasably or permanently mounted on the chairs. To fulfill all these functions, the inventive rocker, which consists of an arcuately shaped elongated member, has elongated openings adjacent to the front and rear ends and on the top surface thereof. The elongated openings receive the legs of normal chairs. Extending across the width of the rocker, and over the elongated openings, are grooves which can receive the bars of chairs whose legs are connected by bars. As the openings are elongated the rockers can be mounted on chairs with different lengths of spacing between their front and rear legs. As chairs with bars are usually of the folding type, the chairs can be folded to fit the spacing between grooves. However, two grooves can also be provided at the rear of the rocker so that the rocker will fit a wider range of such chairs. Write: Jack Harris, 6280 Decarie, Apt. 812, Montreal (Quebec); Ben Harris, 8135 Wiseman Avenue, Apt. 5, Montreal (Quebec) Canada

Bicycle **1,058,653** **Bicyclette**
A bicycle having its saddle support inclusive of a saddle and a crank means elastically suspended from an upper frame independently of its upper and its lower frame in which front and rear wheels are journaled so as to prevent transmission of vertical motion therefrom to the saddle support and also so as to protect, in conjunction with the saddle support, the handle itself against the vertical motion of the wheels. Write: Kuniyoshi Kanazawa, 2-21-5 Wakamiya, Asahi-ku, Osaka-shi 535, Japan

Rule Protractor **1,058,858** **Compas à rapporteur d'angle**
A quadrant for use by draftsmen: the device consisting of two arms attached pivotally together at one end, and including degree calibration, so the angle between the arms is readily read, and the device including locking means whereby the angle between the arms can be maintained fixed. Write: Daniel F. Roach; George Spector, 3615 Woolworth Building, New York, N.Y. 1007

System for Supplying Inert Gas **1,058,874** **Système d'alimentation en gaz inerte**
The exhaust gases from an internal combustion engine are processed for release to the atmosphere or for delivery to a consuming point, such as a subsurface oil producing formation, by passage through a catalytic converter which reduces or eliminates corrosive, combustible, and other undesirable components of the exhaust. In order to insure the presence in the gases of optimum chemical components for effecting the catalytic reaction, an exhaust analyzer and controller adjusts the supply to the engine of an additive of different BTU value than the main fuel supply. Write: Production Operators, Inc., 7928 Cook Road, Houston, Texas, U.S.A.

Procédé de réalisation d'une fibre optique **1,058,876** **Method for Making Optical Fibers**
Procédé de réalisation d'une fibre optique consistant à effectuer sur un barreau constitué d'un premier verre un premier dépôt superficiel comprenant un oxyde, à effectuer sur un tube constitué d'un deuxième verre un second dépôt superficiel, à chauffer le barreau et le tube pour agglomérer les premier et second dépôts superficiels, à introduire le barreau dans le tube, à porter le tube entourant le barreau à une température suffisante pour obtenir le ramollissement des verres, et à étirer longitudinalement le barreau et le tube ramollis. Le procédé de l'invention est caractérisé par le fait que le premier dépôt superficiel est obtenu en recouvrant la surface du barreau d'une couche d'une première solution d'un premier composé choisi dans le groupe constitué par l'oxyde de bore B_2O_3 , l'oxyde de germanium GeO_2 , l'alumine Al_2O_3 , l'anhydride phosphorique P_2O_5 , l'oxyde de lithium Li_2O , l'oxyde de béryllium BeO , l'oxyde d'antimoine Sb_2O_3 , l'oxyde d'arsenic As_2O_3 , l'oxyde de zinc ZnO et l'oxyde de magnésium MgO , et que le second dépôt superficiel est obtenu en recouvrant la surface du tube d'une couche d'une deuxième solution d'un deuxième composé choisi dans le groupe constitué par l'oxyde de bore B_2O_3 , l'oxyde de germanium GeO_2 , l'alumine Al_2O_3 , l'anhydride phosphorique P_2O_5 , l'oxyde de lithium Li_2O , l'oxyde de béryllium BeO , l'oxyde d'antimoine Sb_2O_3 , l'oxyde d'arsenic As_2O_3 , l'oxyde de zinc ZnO et l'oxyde de magnésium MgO ; le chauffage est effectué de manière à fritter les couches et à les faire adhérer respectivement sur le barreau et le tube. Écrire: Compagnie Générale d'Électricité S.A., 54 rue de la Boétie, 75382 Paris Cedex 08, France

Ceramic to Metal Seal **1,058,878** **Joint interposé entre une pièce en métal et une pièce en ceramique**
Providing a high strength, hermetic ceramic to metal seal by essentially heating a wire-like metal gasket and a ceramic member, which have been chemically cleaned, while simultaneously deforming from about 50% to 95% the metal gasket against the ceramic member at a temperature of about 30% to 75% of the melting temperature of the metal gasket. Write: United States Department of Energy, Washington, 20545, U.S.A.

Apparatus for Preparing Pastry **1,058,969** **Machine pour la préparation de la pâte de boulangerie**
A cylindrical drum and a roller are mounted for rotation with their respective axes horizontal. The periphery of the roller is adjacent to that of the drum and has one or more recesses of constant depth. The drum and the roller are rotated at the same peripheral speed. A farinaceous paste, supplied to the periphery of the roller in a zone remote from the drum, is repeatedly taken up by the recess or recesses and is transferred to the drum in the form of portions, which may be interconnected. The paste on the drum is heated, so that it is at least partially cooked to pastry, and the pastry is removed from the drum. Write: Winner Food Products Limited, 673 Nathan Road, Kowloon Hong Kong

ARC Reforming of Hydrocarbons**1,059,065****Reformage par ARC d'hydrocarbures**

A process for the production of reducing-gas mixtures of carbon monoxide and hydrogen by the partial oxidation of at least one hydrocarbon with an oxygen-containing gas or a mixture of oxygen-containing gases, in stoichiometric ratios. The process comprises selecting a predetermined equilibrium temperature, forming an arc plasma by striking an arc in a portion of the reactants in gaseous phase, reacting the remaining portion of reactants with the arc plasma to obtain a gaseous reaction mixture having an average temperature at least equal to the predetermined equilibrium temperature but lower than the temperature of the plasma and allowing the reaction mixture to reach homogeneity at the said average temperature. The process of the invention does not necessitate thorough pre-cleaning or pre-purification of the starting materials and, accordingly, off-gas from an integrated ore reduction process may be used as main oxidizing gas. The reducing gas produced is suitable for the direct reduction of ores. Write: Sidbec-Dosco Ltd., 507 Place d'Armes, Montreal (Quebec); Hydro-Québec, 75 Dorchester West, Montreal (Quebec)

Multiple Conduit Swivel Joint**1,059,179****Joint à rotule pour conduites multiples**

A multiple conduit swivel joint is shown and described having ingress and egress ports respectively on first and second conduits. The ports open to a substantially matching area of relatively movable, pneumatic joiner and have tapered chambers leading therefrom. A method of passing fluid from one conduit through an articulate joint to a second conduit in a helical path having no flow restriction, chamber expansion or the like is also described. Write: Litton Industries, Inc., 360 North Crescent Drive, Beverly Hills, California 90210 U.S.A.

Dispositif numérique de génération d'une onde modulée en phase par un signal de données et filtrée**1,059,221****Digital Device for Generating a Filtered Wave Phase Modulated by a Data Signal**

Dispositif numérique de génération d'une onde modulée en phase par un signal de données et filtrée, dans lequel on engendre ladite onde sous forme d'une suite de valeurs numériques délivrées à une cadence dite de calcul, à partir de valeurs emmagasinées dans une mémoire dont la lecture est commandée par un organe de sélection recevant des informations sur la phase de modulation et la phase d'une onde porteuse. Selon l'invention, les informations sur la phase de modulation sont appliquées à l'organe de sélection à travers une ligne à retard formée de r cellules en série introduisant chacune un retard égal à une période de calcul, l'organe de sélection détermine à chaque période r informations significatives respectivement, des sommes des r valeurs retardées de la phase de modulation et de la valeur à cette période de la phase de la porteuse, et la mémoire est agencée pour délivrer, en réponse à ces r informations, r valeurs sinusoïdales correspondant auxdites sommes, multipliées respectivement par r coefficients prédéterminés. Un accumulateur additionne sur chaque période les valeurs issues de la mémoire en vue de former la suite de valeurs numériques définissant l'onde modulée filtrée. Écrire: Compagnie Industrielle des Télécommunications Cit-Alcatel S.A., 12, rue de la Baume, 75008, Paris, France

Ensemble d'égalisation autoadaptatif**1,059,222****Self-Adapting Equalization System**

Cet ensemble d'égalisation est composé de deux parties placées aux extrémités d'une voie de transmission. La partie placée à l'émission permet d'ajouter des signaux d'asservissement au signal de transmission proprement dit. La partie placée à la réception permet de régénérer des signaux d'asservissement identiques à ceux émis, en phase avec ceux reçus par la voie de transmission, de séparer dans le signal reçu les signaux d'asservissement du signal de transmission au moyen d'un premier filtre transversal à coefficients de pondération asservis, de synthétiser la transmittance inverse de la voie de transmission à partir des signaux d'asservissement régénérés et de ceux reçus, au moyen d'un deuxième filtre transversal à coefficients de pondération asservis et de réaliser l'égalisation proprement dite au moyen d'un troisième filtre transversal ayant même structure et mêmes coefficients de pondération que le deuxième. Écrire: Compagnie Industrielle des Télécommunications Cit-Alcatel, 12 rue de la Baume, 75008, Paris, France

Electronic Way to Rapidly Erase a Blackboard**1,059,272****Dispositif électronique pour effacer rapidement un tableau**

This is a method of erasing a blackboard mechanically instead of manually, which implies a considerable saving of time and money. Write: Ray Agnesi, 725 Caven Circle, Montreal H4N 2N0, Canada; Damion Bond, R.R. 2, Douglstown, Quebec G0C 1M0, Canada

Compressable Prefabricated Wall Sections for Wood Frame Buildings

1,059,287

Sections de mur compressibles pour maisons préfabriquées à ossature en bois

Wall sections for prefabricated buildings are constructed so that they have one stud and one short bottom plate whose length is equal to the design stud spacing at 90° forming an "L". The sections are covered inside and outside with inside and outside finish. Each section is insulated with fiberglass insulation in batt form. The above description is meant to indicate ordinary building construction. The new sections would be similar except that the stud and plate would be split in two in the plane of and between their covering coats with one part being fixed to the outside finish and the other part being fixed to the inside finish. The fiberglass insulation would not be cut and would be left adhered to the inside surface. For shipping purposes and to cut bulk, one section half would be spun around 180° and offset so that the two "L" shaped framing members would form a rectangle and then it would be crushed against the other half section, compressing the resilient fiberglass insulation to less than a small fraction of the wall thickness and fastened tight in this manner for shipment. After shipment, the half sections' are set in their proper relation allowing the insulation to expand fully and the sections are fixed into the building. Write: Sir Walter Lindal, 1120 Eighth Avenue, #1702, Seattle, Washington 98101, U.S.A.

Process and Apparatus for In Situ Melting of Sulphur from Solid Sulphur Storage Block

1,059,293

Procédé et appareillage pour la fonte in situ de soufre provenant d'un bloc solide d'alimentation

A row of horizontal bores is drilled into the block adjacent the base of the block and elongated heat exchange tubes are inserted into these bores to provide a horizontal array of such tubes. A weir is provided adjacent the base of the block to enable a layer of molten sulphur to be retained in contact with the heating elements, and heat is supplied to the tubes to cause sulphur in contact with the tubes to melt and to form this molten layer, means being provided to remove the molten sulphur at a rate suitable for maintaining the liquid layer in contact with the tubes. Write: Hudson's Bay Oil and Gas Company Limited, 700 2nd Street S.W., Calgary, Alberta, T2P 0X5, Canada

Method for Solidifying Liquid Radioactive Wastes

1,059,307

Méthode de solidification de déchets radioactifs liquides

The quantity of nitrous oxides produced during the solidification of liquid radioactive wastes containing nitrates and nitrites can be substantially reduced by the addition to the wastes of a stoichiometric amount of urea which, upon heating, destroys the nitrates and nitrites, liberating nontoxic N₂, CO₂ and NH₃. Write: United States Department of Energy, Washington, D.C. 20545, U.S.A.

Fireplace Chimney Furnace

1,059,397

Tuyau de foyer servant d'échangeur de chaleur

A heat exchanging chimney in the form of a tubular heat exchanger which functions as a furnace and which is mounted above a conventional fireplace with a preferably transparent or translucent closure means over the front is described. The fireplace is constructed such that it draws outside air for combustion of the fuel and not air from the rooms being heated. The chimney is specifically in the form of at least one vertically oriented multiple tube shell type heat exchanger in place of the conventional fireplace chimney wherein the flue gases pass inside the tubes and the room air is heated inside the shell. In operation, the fireplace and heat exchanging chimney achieve substantial economies in utilization of fuel, particularly wood, over fireplaces with conventional chimneys. Write: Gerald A. Sherman, 365 Railroad St., Muir, Michigan 48860; Larry P. Sherman, 430 East Street, Muir, Michigan 48860, U.S.A.

Support Foot Device for Load Carriers

1,059,454

Appuie-pied pour transporteurs

Support foot devices are provided to be secured under load carriers such as boxes and carton packages each device comprising an elongate carrier plate and at least two support feet spaced from each other and secured on the carrier plate, the side of the carrier plate opposite to the support feet having a flat, slablike connecting piece which is aligned with the carrier plate, the opposing ends of said connecting piece forming free insert flaps adapted to be inserted into insert pockets in or at the lower side of one or two of such load carriers. Write: Ake O.V. Gemvik, Gökvägen 71, S-183 51 Täby, Sweden

Seal Ring Comprising a Hollow Deformable Metal Element

1,059,546

Bague d'étanchéité comportant un élément en métal creux déformable

The invention concerns a metal seal ring comprising a jacket made of ductile metal intended to be clamped between two surfaces to be applied against each other in a fluid-tight manner and one or two internal spiral springs having close-wound turns made of

metal wire, the jacket being provided with a bead in the vicinity of its bearing lines on the surfaces to be applied against each other, on the spiral springs being formed with a wire having a cross-section such that it avoids the creeping of the metal of the jacket between the turns in the vicinity of the bearing lines on the surfaces to be applied against each other. Such a seal withstands numerous assembling and dismantling cycles and rising and lowering temperature, without any appreciable loss of its fluid-tight qualities. Write: Le Joint Français, 10 rue de la Baume, 75008 Paris, France

Transporting Heavy Fuel Oil as a Slurry

Heavy fuel oil having an average pour point above the average minimum temperature of a transporting system is effectively transported by first physically separating the heavy fuel oil into two portions, fractionating the first portion into a relatively low pour point fraction and a relatively high pour point fraction, recombining the relatively low pour point fraction with the second portion, congealing the second portion to form particles, coating the congealed particles with the relatively high pour point fraction and thereafter slurrying the coated, congealed particles in a carrier liquid, preferably water, and transporting the slurry in a transportation system, preferably a pipeline. Write: Marathon Oil Company, 539 South Main Street, Findlay, Ohio 45840, U.S.A.

1,059,562

Transport de mazout lourd sous forme de schlamm

CANADIAN PATENTS DISTRIBUTION SERVICE

As of July 1, 1979 the Canadian Patent Office ceased to be involved in the printing and sale of any Canadian patents granted since 1948. Beginning with patent number 445,931, paper, microfiche or other microform copies of Canadian patents are exclusively available for \$2.00 per patent from:

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TECNO - TRANSFER MEXICO '79

An international fair for the exchange of technology is to be held at the Auditorio Nacional, Mexico City from October 12 - 19, 1979. Canadian manufacturers particularly interested in expanding their product lines into Mexico through a licensing or joint venture arrangement with a Mexican company should take advantage of this opportunity to establish contact with potential affiliates. For additional information please contact: Mr. Roberto Gamboa, Coordinator General, Techno Transfair Mexico '79, Secretaria de Patrimonio y Fomento Industrial, Insurgentes Sur 522 2° Piso, Mexico 7, D.F. Telephone: 905/564-8000 local 262 or 269, Telex: 1775690.

IENA 79

The only international exhibition of ideas, inventions and novelties held in the Federal Republic of Germany will take place at the Nuremberg Fair Centre from October 31 to November 4, 1979. This annual exhibition affords an opportunity to market or acquire new technology through direct contact with exhibitors and manufactures. Further information may be obtained from:

AFAG
Ausstellungsleitung IENA 79
Messexentrum Nürnberg
D 8500 Nürnberg, Germany

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TECNO TRANSFAIR MEXICO '79

Une foire internationale pour les échanges de technologie aura lieu à l'Auditorio Nacional, à Mexico, du 12 au 19 octobre 1979. Les fabricants canadiens qui tiennent tout particulièrement à implanter leurs gammes de produits au Mexique en régime de licence ou de coentreprise avec une société mexicaine devraient saisir cette occasion de nouer des contacts avec leurs partenaires éventuels. Pour plus de précisions, communiquer avec: M. Roberto Gamboa, coordonnateur général, Techno Transfair Mexico '79, Secretaria de Patrimonio y Fomento Industrial, Insurgentes Sur 522 2° Piso, Mexico 7, D.F. Tél. 905/564 - 800 local 262 ou 269, Télex 1775690.

IENA 79

La seule exposition internationale "Idées - Inventions - Nouveautés" de la République fédérale d'Allemagne aura lieu au Centre de foire de Nuremberg du 31 octobre au 4 novembre 1979. Cette exposition annuelle offre l'occasion de commercialiser ou d'acquérir de nouvelles techniques grâce aux contacts directs qu'elle permet d'avoir avec les exposants et les fabricants. Pour de plus amples renseignements, veuillez contacter:

AFAG
Ausstellungsleitung IENA 79
Messexentrum Nürnberg
D 8500 Nürnberg, Germany

TECHNO '79 TOKYO

Techno '79, fourth Japanese international licensing and joint venture exposition, will be held during the period November 13-17, 1979 at the Science and Technology Centre, Tokyo. Sponsored by the Japan Industrial Daily News and Sankei Press and assisted by the Licensing Executives Society, the exhibition offers opportunities in the areas of technology exchange, joint venture, investment in Japan, and sales promotion. The hours of operation are 1000 to 1700 and visitor fees are 1000 yen (approximately Canadian \$5.40). Those interested can obtain full details from:

The Nikon Kogyo Shimbun
(Japan Industrial Daily News)
Sankei Building, 7-2 Ohtemachi 1-Chome
Chiyoda-ku, Tokyo 100, Japan
Telephone: 03-231-7111 – Telex: J 22235

The Commercial Division of the Canadian Embassy in Tokyo would be pleased to assist Canadian businessmen attending to make contact with other organizations or individual firms.

8TH INTERNATIONAL EXHIBITION OF INVENTIONS AND NEW TECHNIQUES

The 1979 International Exhibition of Inventions and New Techniques will be held at the Palais des Expositions from November 30 to December 9. The fair operates under the patronage of the Swiss Federal Government.

Canadian exhibitors wishing to display licenseable technology (presence at the fair is not obligatory) and those interested in acquiring licenses for new products and processes may obtain application forms and/or information from:

Permanent Secretary's Office
International Exhibition of Inventions
8, rue du 31-Décembre
Geneva, Switzerland
Tel: (022) 36 59 49 Telex: 28 808 EXPOS CH

Canadian businessmen proposing to participate in, or visit the exhibition, should advise the Commercial Secretary, Canadian Embassy, Kirchenfeldstrasse 88, 3005 Berne, Switzerland of their intentions in order that the services of that office may be extended to them.

EUREKA '79

The 28th anniversary of Eureka, the World Inventions Show is to be held at the Expo Rogier Centre, Brussels, Belgium, from December 1 to 9, 1979. Inventors and researchers worldwide will present the results of their research in industrial innovation. Canadian firms interested in being represented at or participating in the Show can obtain additional information from: Brussels Eureka, Secrétariat au Salon, Rue Duquesnoy 14, 1000 Brussels, Belgium. Tel: 02/512.21.87 – 02/513.16.05.

TECHNO '79 TOKYO

Techno '79, la quatrième exposition internationale d'offres de fabrication sous licence et d'entreprises en participation que tient le Japon, aura lieu, du 13 au 17 novembre 1979 au Centre des sciences et de la technologie de Tokyo. Techno '79 est parrainée par le Japan Industrial Daily News et le Sankei Press; la Licensing Executives Society apporte également son appui. Cette exposition offre des possibilités dans les domaines des échanges technologiques, d'entreprises en participation, des investissements au Japon et de la promotion des ventes. Les visiteurs peuvent s'y rendre de 10 à 17 h, moyennant un droit d'entrée de 1 000 yen (environ \$(CAN) 5.40). Pour de plus amples renseignements, prière de s'adresser à:

The Nikon Kogyo Shimbun
(Japan Industrial Daily News)
Immeuble Sankei, 7-2 Ohtemachi 1-Chome
Chiyoda-ku, Tokyo 100, Japon
Téléphone: 03-231-7111 – Téléc: J22235

La Division commerciale de l'Ambassade du Canada à Tokyo se fera un plaisir d'aider les hommes d'affaires canadiens qui y participeront à établir des rapports avec d'autres organismes ou firmes.

HUITIÈME EXPOSITION DES INVENTIONS ET DES INNOVATIONS

L'Exposition internationale de 1979 des inventions et des innovations aura lieu au Palais des expositions, à Genève, du 30 novembre au 9 décembre. La foire est tenue sous les auspices du gouvernement fédéral de la Suisse.

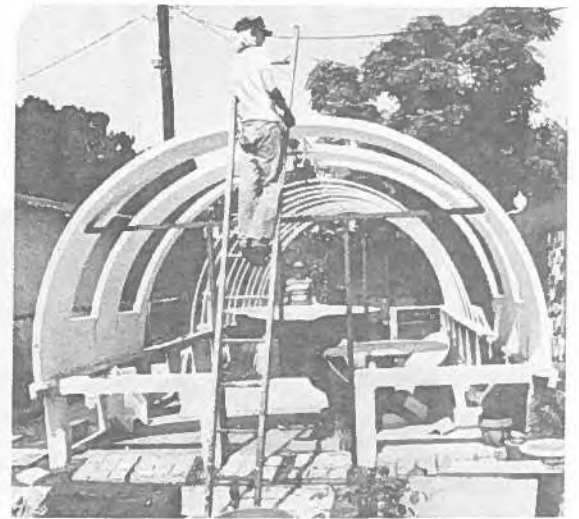
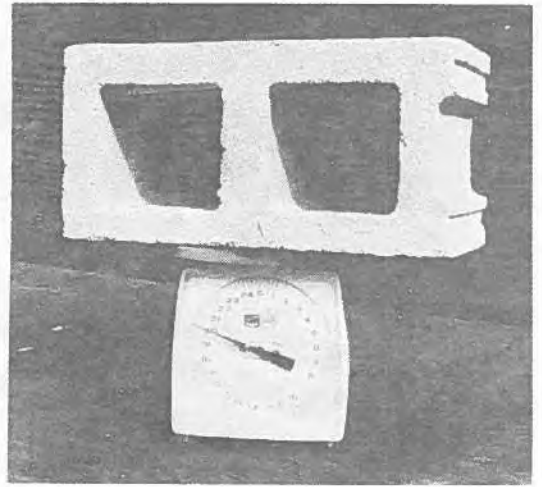
Les exposants canadiens qui désirent présenter des techniques susceptibles de faire l'objet de licences (la présence à la foire n'est pas indispensable) et ceux qui sont intéressés à obtenir sous licence, des droits de fabrication ou de procédés peuvent se procurer des formules de demande et (ou) des renseignements en s'adressant au

Bureau du secrétaire permanent
Exposition internationale des inventions
8, rue du 31-Décembre
CH-1207, Genève, Suisse
Tél. (022) 36 59 49 Téléc: 28 808 EXPOS CH

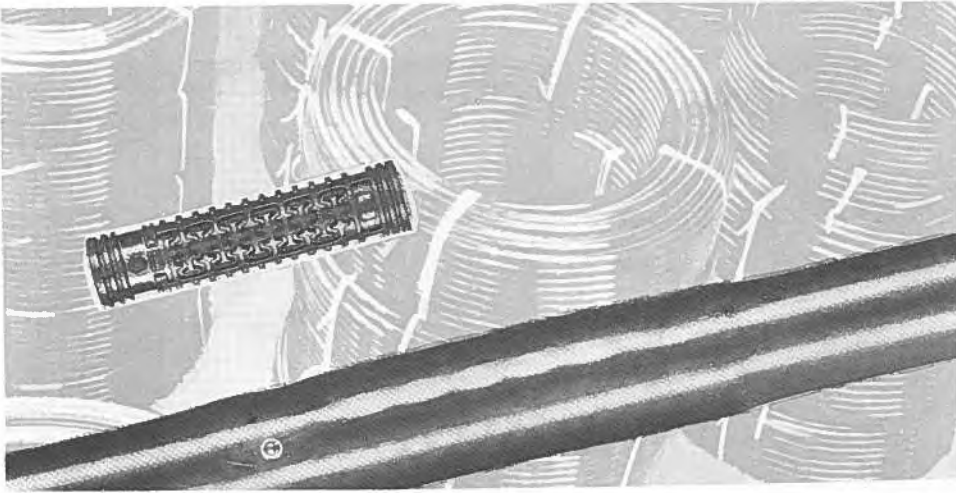
Les hommes d'affaires canadiens qui se proposent de participer à l'exposition ou de la visiter devraient faire part de leurs intentions au Secrétaire commercial de l'Ambassade du Canada, Kirchenfeldstrasse 88, 3005 Berne, Suisse afin que les services de son bureau soient mis à leur disposition.

EUREKA '79

Le 28^e anniversaire de Eureka, le Salon mondial des inventions sera célébré au Centre Expo Rogier, à Bruxelles, Belgique, du 1^{er} au 9 décembre 1979. Les inventeurs et chercheurs du monde entier présenteront le fruit de leur recherche en matière d'innovation industrielle. Les sociétés canadiennes désireuses d'y être représentées ou de participer à cette manifestation peuvent obtenir plus de précisions à ce sujet en s'adressant à Eureka Bruxelles, Secrétariat au Salon, rue Duquesnoy 14, 1000 Bruxelles, Belgique. Tél. 02/512.21.87 – 02/513.16.05



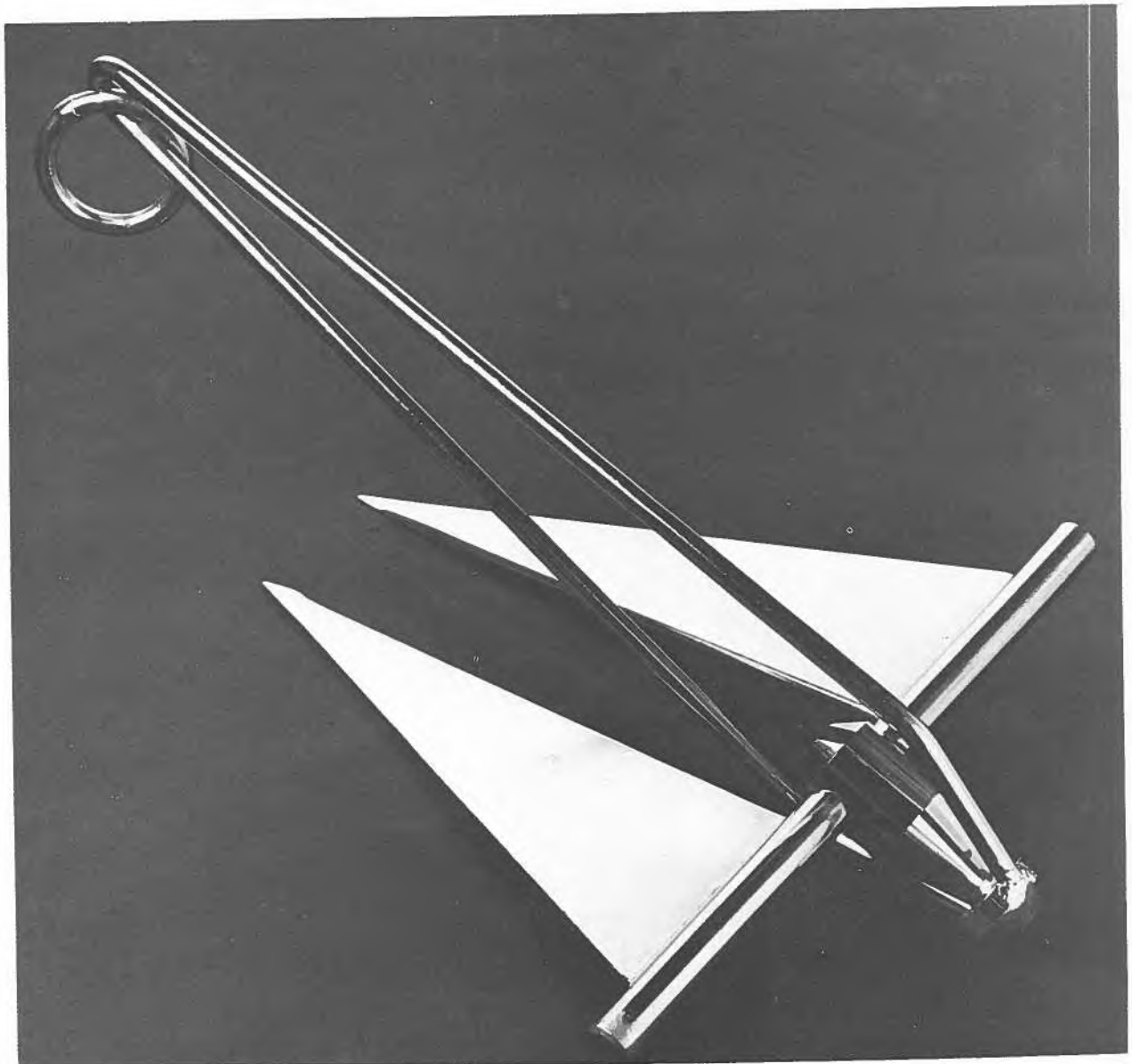
Solar Collectors and Systems
Collecteurs et systèmes solaires



Drip Irrigation Pipe
Tuyau d'irrigation goutte à goutte



Loading and Transporting Device with Weighing Equipment
Dispositif de chargement et de transport muni d'un
appareil de pesée



Boat Anchor