

# new products bulletin

This monthly bulletin is published to promote additional manufacturing in Canada. Information on offers included in the bulletin is for circulation to established or prospective Canadian manufacturers only. No responsibility is assumed for claims or statements made. Address enquiries concerning the following items to:

Department of Industry, Trade and Commerce  
Ottawa, Canada K1A 0H5

Attention: Industrial and Trade Enquiries Division  
(Telephone 613 593-4963)

# bulletin de produits nouveaux

Le présent bulletin est publié mensuellement en vue de stimuler au Canada l'accroissement du secteur manufacturier. Les renseignements concernant les offres publiées dans la bulletin ne sont destinés qu'aux manufacturiers canadiens établis ou projetant de s'établir. Nous ne sommes pas responsables de la teneur des demandes ou des annonces publiées. Pour tous renseignements à ce sujet, s'adresser à:

Ministère de l'Industrie et du Commerce  
Ottawa (Canada) K1A 0H5

Aux soins de: Division des renseignements industriels  
et commerciaux

(Téléphone 613 593-4963)

## BULLETIN 253

JANUARY 1977

### Drafting System

Item 3445

German firm seeks a licensing arrangement with a Canadian company for the manufacture of its drafting system. The drafting unit is equipped with an endless transport band serving as a conveyor for the drawings. The board itself is constructed of a metal plate to which a sound deadening material is attached. The drawings are taped to the endless belt and can be moved up or down or over the tubular rolls to the back side or vice-versa. The height of the unit may be adjusted to the size of the draftsman who can work comfortably in sitting position. Literature available. See illustration.

### Cladding Panel

Item 3446

British firm offers under license the Canadian manufacturing rights to its cladding panel. This panel is a semi-rigid, decorative sheet of cladding material made from polyester resin, glass fibre and stone. Its principal use is as an external cladding material in the building industry. It is also used for internal wall finishes as an architectural feature. It is claimed that this cladding panel has high impact strength, is resistant to frost, damp, corrosion, chemical attack. It is self-cleaning and maintenance free. Literature available.

### Anticorrosion Coating

Item 3447

Czechoslovakian state licensing agency is offering the Canadian manufacturing rights to a detachable varnish coating for protection of metals against atmospheric corrosion. This material of the solvent type contains film forming

## BULLETIN 253

JANVIER 1977

### Système de dessin

Article 3445

Une société allemande offre sous licence, les droits de fabrication au Canada de son système de dessin. L'unité est munie d'une courroie sans fin qui sert de convoyeur pour les dessins. La table elle-même est construite d'une plaque métallique qui comporte un matériau insonorisant. Les dessins sont attachés au moyen de ruban, à la courroie sans fin et peuvent être déplacés vers le haut ou vers le bas ou, sur les rouleaux, vers le dos ou vice-versa. La hauteur de la table peut être adoptée à la taille du dessinateur qui peut ainsi travailler confortablement, dans la position assise. Documentation sur demande. Voir l'illustration.

### Panneaux de revêtement

Article 3446

Une société britannique offre sous licence les droits canadiens de fabrication de ses panneaux de revêtement. Les panneaux ont la forme de feuille décorative semi-rigide recouverte de matériel de revêtement fabriqué à partir de résine de polyester, de fibre de verre et de pierre. Les panneaux servent surtout comme revêtement extérieur dans l'industrie de la construction. On les emploie aussi comme matériel de finition des murs intérieurs en raison de leur attrait architectural. On prétend que les panneaux de revêtement résistent aux chocs puissants, au gel, à l'humidité, à la corrosion, et aux effets des produits chimiques. Ils sont auto-nettoyants et libres d'entretien. Documentation sur demande.

### Revêtement anti-corrosion

Article 3447

Un organisme d'Etat de la Tchécoslovaquie offre sous licence, les droits de fabrication au Canada d'un vernis de revêtement enlevable pour la protection des métaux contre la corrosion atmosphérique. Ce matériau, du type solvant,



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components, plasticizers, a corrosion inhibitor and organic solvents with a high evaporation rate. This film can be applied by spraying in cold and hot conditions, by dipping, painting or flow coating. It is removed by stripping or dissolving. Literature available.

**Resin Bonded Concrete**

**Item 3448**

British company offers under license the Canadian manufacturing rights to its resin bonded concrete. This is a relatively new material using conventional concrete aggregates but with polyester resins rather than cement as a binding agent. The advantages claimed are greater strength, saving in weight, high resistance to chemical attack, high frost resistance, rapid curing and a wide range of decorative finishes. Literature available.

**Bucket Elevator and Conveyor**

**Item 3449**

German firm offers under license the Canadian manufacturing rights to its bucket elevator and conveyor system. The system consists of feeding and discharging stations, corner parts, drive units, bucket-cleaning stations and channels. The charging and discharging can be effected continuously and exactly dosed. The pivoting buckets form a closed transport track in the horizontal line with their overlapping brims. After discharging, the buckets return to their upright position. Fields of application include chemical and food industries. Literature available.

**Air Cushion Conveyor System**

**Item 3450**

American firm seeks licensing arrangement with a Canadian company for the production of its air cushion conveyor system. According to this system, a vectored film of air is created by passing low pressure air through a specially punched series of slots in a flat plate. This film floats objects above the plate and moves them along channels divided by rails or other horizontal dividers. The air cushion conveyor can move packages, containers, scrap metal, textiles, plastics, and can even convey water. Literature available.

**Electric Terminal**

**Item 3451**

South African firm is offering the manufacturing rights to its connection terminal. The terminal is simple and compact having no moving parts and is designed to connect electric wire quickly and safely without the use of tools or insulation tape. It anchors wire so that any strain only locks it more firmly into the terminal. It is claimed to have almost unlimited application as an integral part of plug tops, switches, lamp holders, etc. Literature available.

contient des composants formant une pellicule, des plastifiants, un inhibiteur de corrosion et des solvants organiques à évaporation très rapide. Cette pellicule peut être appliquée par vaporisation à chaud ou à froid, immersion, peinture ou écoulement. On l'enlève par décapage ou dissolution. Documentation sur demande.

**Béton lié à la résine**

**Article 3448**

Une société britannique offre sous licence, les droits de fabrication au Canada, de son béton lié à la résine. Il s'agit d'un produit relativement nouveau qui est fabriqué à partir des agrégats ordinaires du béton mais qui utilise des résines de polyester plutôt que le ciment comme agent liant. On prétend que ce béton offre une plus grande force, une économie de poids, une haute résistance aux agents chimiques et au gel, un séchage rapide et une grande variété de finis décoratifs. Documentation sur demande.

**Élévateur-convoyeur à godets**

**Article 3449**

Une société allemande offre sous licence, les droits de fabrication au Canada de son système d'élevateur-convoyeur à godets. Le système consiste en postes d'alimentation et de déchargement, coins, unités motrices, postes de nettoyage des godets et canalisations. Le chargement et le déchargement peuvent être effectués sans interruption et dosés avec précision. Les godets pivotants forment un circuit fermé de transport sur le plan horizontal étant donné le chevauchement de leurs rebords. Après le déchargement, les godets retournent à leur position verticale. Parmi les champs d'application, on remarque les industries alimentaires et chimiques. Documentation sur demande.

**Convoyeurs à coussin d'air**

**Article 3450**

Une société américaine désire en venir à un accord de licence avec une entreprise canadienne en vue de fabriquer son convoyeur à coussin d'air. Selon ce système, une couche d'air dirigée est créée en faisant passer de l'air à basse pression au travers d'une série de fentes spécialement perforées dans une plaque plate. Grâce à cette couche d'air, les objets flottent au-dessus de la plaque et sont transportés sur des bandes séparées par des rails ou d'autres divisions horizontales. Le convoyeur à coussin d'air peut transporter des colis, des contenants, des riblons, des textiles, des matières plastiques et même de l'eau. Documentation sur demande.

**Borne électrique**

**Article 3451**

Une société d'Afrique du Sud offre sous licence les droits de fabrication de sa borne de connexion. Ne comportant aucune pièce mobile, la borne est simple et compacte et elle est destinée au raccord de fils électriques sans l'usage d'outil ou de ruban isolant. Elle retient le fil de façon telle que toute tension ancre celui-ci plus fermement à l'intérieur de la borne. On prétend qu'elle a une utilisation presque illimitée dans les fiches, interrupteurs, lustres, etc. Documentation sur demande.

**Stabilized Rectifier****Item 3452**

Swiss firm offers under license the Canadian manufacturing rights to its electroplating rectifier. The THO-type rectifier is used in the industrial sector and in the laboratory for electroplating and in other applications where a stabilized direct-current supply is necessary. The negative output impedance permits automatic compensation of losses in the system in which it is used. Literature available. See illustration.

**Automatic Telephone Dialer****Item 3453**

American company is offering the rights for manufacturing under license in Canada its automatic telephone dialer. The unit has a non-volatile memory of 50 number capacity. It features a magnetic storage medium using a long wearing chromium dioxide tape. A push on the operating button activates the call. A number is erased by programming a new number over it. Literature available. See illustration.

**Lighters****Item 3454**

Austrian firm is seeking a joint venture arrangement with a Canadian company to manufacture its various types of refillable and disposable butane and gas lighters. Refillable lighters are completely stormproof and nickelplated. Plastic injection machines are necessary for the production of disposable gas lighters. Literature available. See illustration.

**Screw Thread System****Item 3455**

British firm offers under license the Canadian manufacturing rights covering its cap and closure system for use on a wide range of containers. It is claimed that the system resists accidental unscrewing while improving sealing performance in permitting use of linerless closures. It is adaptable to injection, injection-blow and extrusion-blow moulding processes. Literature available. See illustration.

**INVENTIONS**

The following manufacturing opportunities represent products and processes that have not been commercially proven. In some cases, prototypes have been developed.

**Antigenic Composition Against Furunculosis****Item 3456**

American state agency is offering the rights to manufacture under license in Canada a new antigenic composition which provides oral immunization of trout and salmon against furunculosis. This composition is produced by inoculating a culture medium with *Aeromonas salmonicida*, extracting toxin produced by the cell culture and rendering the toxin non-injurious to fish while retaining its antigenic properties. Literature available.

**Redresseur stabilisé****Article 3452**

Une société suisse offre sous licence, les droits de fabrication au Canada de son redresseur destiné à l'électroplastie. Le redresseur type THO est utilisé dans le secteur industriel et en laboratoire pour l'électroplastie et d'autres applications où une source de courant continu redressé est exigée. La sortie de l'impédance négative permet la compensation automatique des pertes dans le système où il est utilisé. Documentation sur demande. Voir l'illustration.

**Appareil d'appel téléphonique automatique****Article 3453**

Une société américaine offre sous licence les droits de fabrication au Canada de son appareil d'appel téléphonique automatique. Le dispositif possède une capacité de mémorisation non volatile de 50 numéros. La mise en mémoire se fait sur un ruban magnétique durable de bioxyde de chrome. Le mécanisme d'appel est déclenché en appuyant sur le bouton de commande. L'utilisateur peut effacer un numéro en en composant un nouveau par-dessus l'ancien. Documentation sur demande. Voir l'illustration.

**Briquets****Article 3454**

Une société autrichienne offre une participation dans la fabrication au Canada, de ses divers types de briquets au butane ou à essence, rechargeables ou à remplissage unique. Les briquets tempête sont à l'épreuve des intempéries et complètement nickelés. Des machines à injection du plastique sont nécessaires pour la fabrication des briquets jetables. Documentation sur demande. Voir l'illustration.

**Nouveaux filetages****Article 3455**

Une société britannique offre sous licence les droits canadiens de fabrication de ses ensembles de bouchons et de goulots filetés pour toute une gamme de contenants. On prétend que ces ensembles ne peuvent pas se dévisser accidentellement et qu'ils améliorent l'étanchéité des contenants au moyen de fermetures sans garnitures. Ils s'adaptent au moulage par injection et par extrusion. Documentation sur demande. Voir l'illustration.

**INVENTIONS**

Les possibilités de fabrication suivantes concernent des produits et procédés qui n'ont pas été éprouvés commercialement. Dans certains cas, des prototypes ont été mis au point.

**Composition d'antigènes pour combattre la furonculose****Article 3456**

Un organisme d'un Etat américain offre les droits sous licence de fabrication au Canada d'une nouvelle composition d'antigènes qui permet l'immunisation orale de la truite et du saumon contre la furonculose. Cette composition est produite en inoculant un bouillon de culture avec de l'*Aeromonas salmonicida*, en retirant la toxine produite par la culture de cellules et en rendant la toxine inoffensive pour les poissons tout en retenant ses propriétés d'antigène. Documentation sur demande.

**Semi-Disposable Slush Mat****Item 3457**

Canadian inventor is offering the rights for manufacturing under license in Canada his semi-disposable slush mat. The device consists of two layers of plastic or rubber grid fastened along one side to hold approximately one inch in thickness of newspaper which acts as absorbent material for melted snow and water. As the newspaper becomes saturated, it is easy to dispose of it and use fresh newspaper. Literature available.

**Tapis semi-jetable pour neige fondue****Article 3457**

Un inventeur canadien offre sous licence les droits de fabrication de son tapis semi-jetable pour neige fondue. Le modèle est constitué de deux grilles de plastique ou de caoutchouc rattachées sur un côté. L'espace d'environ un pouce entre ces deux plaques peut contenir du papier journal pour absorber l'eau et la neige fondue. Lorsque le papier journal est complètement imbibé, on peut facilement le remplacer. Documentation sur demande.

**Fume Incinerator****Item 3458**

Canadian company is seeking a licensing arrangement for the manufacture of its thermal fume incinerator designed for air pollution control and improved fuel economy. The unit is suited for operations where organic, combustible solvents are evaporated in a continuous process. It is claimed that the calorific value of the burned solvents will be utilized to fuel the incinerator and supply the process heat. The unit can be attached without major modification to existing conventional ovens. Literature available.

**Incinérateur de vapeurs****Article 3458**

Une société canadienne offre sous licence, les droits de fabrication de son incinérateur de vapeurs thermiques, destiné à améliorer le contrôle de la pollution et l'économie de combustible. L'appareil est conçu pour fonctionner dans les endroits où des solvants organiques combustibles s'évaporent lors de procédés continus. On prétend que la valeur calorifique des solvants incinérés sera utilisée pour alimenter l'incinérateur et permettre le procédé thermique. La machine peut être reliée sans modifications importantes, aux fours conventionnels actuels. Documentation sur demande.

**Fertilizer from Sewage Sludge****Item 3459**

Canadian assignee of American and Canadian patents seek Canadian manufacturer interested in purchasing or licensing the American and Canadian patent rights for a sewage treatment process. The invention relates to a process and apparatus for treating sewage sludge and producing an odourless fertilizer. The sludge in the form of a slurry is continuously distributed on preheated aggregate pieces which are continuously fed into a lower region of a rotating contactor drum. A substantial portion of the slurry instantaneously adheres to the heated aggregate and the non-adhering slurry passes through perforations in the drum for recycle. The aggregate with adhering sludge is carried upward by means of baffles in the drum and is dumped into a collector trough in an upper region of the drum. This coated aggregate is subjected to further heating as it travels down an inclined path to dry the coating into a hard encrustation and enters a tumbler drum which breaks the sludge coating away from the aggregate and pulverizes the sludge into a dust or powder. This dust is collected as product and the decoated aggregate is recycled. Literature available.

**Engrais à partir de la boue d'égout****Article 3459**

Un concessionnaire canadien offre de vendre les droits de fabrication au Canada ou de céder les droits de fabrication sous licence d'un procédé de traitement des eaux usées, breveté aux Etats-Unis et au Canada. L'invention a trait à un procédé et à l'appareillage pour le traitement de la boue d'égout et à la production d'un engrais inodore. La boue, sous la forme de coulis, est répartie continuellement sur un agrégat préchauffé qui est alimenté, de façon continue, dans la section inférieure d'un tambour contacteur rotatif. Une bonne proportion du coulis adhère instantanément à l'agrégat chaud et le reste du coulis s'écoule par des perforations du tambour pour être recyclé. L'agrégat avec le coulis adhérent, est élevé au moyen de déflecteurs dans le tambour et déversé dans une canalisation collectrice vers une région supérieure du tambour. L'agrégat enduit est chauffé de nouveau en se dirigeant vers le bas sur un plan incliné afin de permettre le séchage de l'enduit qui devient une croûte dure; il pénètre dans un tambour culbuteur où le coulis est séparé de l'agrégat et pulvérisé en poussière ou en poudre. La poussière forme le produit et l'agrégat, débarrassé de l'enduit, est recyclé. Documentation sur demande.

**Collapsible Display Stand for Pocket Calculator****Item 3460**

Canadian inventor seeks a licensing arrangement with a Canadian firm for the manufacture of his collapsible display stand with adjustable reader magnifier for pocket calculators. The device works on simple friction allowing variable angle settings of both stand and lens. It is claimed to be more versatile, rugged and efficient than any other product in this class on the market. Literature available. See illustration.

**Support d'étagage pilant pour calculatrices de poche****Article 3460**

Un inventeur canadien offre sous licence, les droits de fabrication au Canada de son support d'étagage pliant pour calculatrices de poche; ce support est muni d'une loupe ajustable. Le dispositif repose sur le simple principe de la friction et il permet des ajustements variés du support ou de la lentille. Son inventeur prétend qu'il est d'avantage polyvalent, plus robuste et plus efficace que tout autre produit semblable sur le marché. Documentation sur demande. Voir l'illustration.

**Speaker Systems and Amplifiers****Item 3461**

American firm with many products in audio-hi-fi speakers system field is interested in having Canadian company joint venture and manufacture speaker cabinets. Offer includes exclusive rights to produce patented speakers made of glass, also wood cabinet speaker systems, and a unique discotheque console and amplifiers. Literature available. See illustration.

**Systèmes de haut-parleurs et d'amplificateurs Article 3461**

Une société américaine offrant un vaste éventail de systèmes de haut-parleurs dans le domaine audio-hi-fi recherche une participation canadienne dans la fabrication de cabinets de haut-parleurs. L'offre inclut les droits exclusifs de fabrication de haut-parleurs brevetés faits de verre ainsi que des cabinets en bois pour systèmes de haut-parleurs, une discothèque console exclusive et des amplificateurs. Documentation sur demande. Voir l'illustration.

**LICENSING OPPORTUNITIES FROM NRDC**

The following products are offered for manufacture in Canada by NRDC. Technical information on each item is available from:

Department of Industry, Trade and Commerce  
Industrial and Trade Enquiries Division (98/3)  
Ottawa, Canada  
K1A 0H5

**LA NRDC CHERCHE DES CONCESSIONNAIRES CANADIENS**

La NRDC offre les droits de fabrication au Canada des inventions décrites ci-dessous. On peut obtenir des renseignements techniques sur chacun des articles en s'adressant à:

Ministère de l'Industrie et du Commerce  
Division des renseignements industriels et commerciaux (98/3)  
Ottawa (Canada)  
K1A 0H5

Canadian manufacturers requiring more detailed information should contact:

National Research Development Corporation  
Kingsgate House, 66-74 Victoria Street  
London SW1E 6SL

Les fabricants canadiens qui désirent obtenir des renseignements plus détaillés peuvent s'adresser à la:

National Research Development Corporation  
Kingsgate House, 66-74 Victoria Street  
London SW1E 6SL

**Variable Grading Deck****25399/75/253**

The deck is formed from an array of grading rollers in the form of an endless driven loop. The rollers are mounted on T-shaped links within two parallel chains so that the spacing of the rollers depends on the line of the linking chains. The spacing is continuously variable between limits, and can be changed without interrupting the operation of the deck.

**Plateau de classement variable****25399/75/253**

Le plateau est formé d'un ensemble de rouleaux de classement reliés en courroie continue. Les rouleaux sont montés sur des maillons en T en deux chaînes parallèles afin que l'espacement des rouleaux dépende de la ligne des chaînes de maillons. L'espacement est variable continuellement dans ses limites et il peut être modifié sans interruption du fonctionnement du plateau.

**Increased Starting/Stopping Rates for Stepping Motors****10699/76/253**

Two simple techniques have been devised to increase the starting or stopping rate of intermediate speed stepping motors by 200 to 300%. One is a capacitive voltage boost, the other is the optimal pulse timing.

**Moteurs-répartiteurs à taux de départ et d'arrêt augmenté****10699/76/253**

Deux techniques simples ont été mises au point pour augmenter de 200 à 300% le taux de départ et d'arrêt des moteurs-répartiteurs à vitesse intermédiaire. L'une est une amplification de la tension capacitive et l'autre, la modulation optimale par impulsions.

**Electrically Switched Optical Prism****27180/75/253**

This invention consists of an electrically switched optical prism that uses liquid crystals to deflect a laser beam. Large angular deflections of up to  $\pm 20^\circ$  have been obtained using a layer of liquid crystal only 1 mm thick.

**Prisme optique à mise en marche électrique 27180/75/253**

L'invention consiste en un prisme optique à mise en marche électrique qui utilise des cristaux liquides pour dévier un rayon laser. Des déflections angulaires qui ont parfois atteint  $20^\circ$  ont été obtenues en utilisant une couche de crystal liquide d'une épaisseur de 1 mm seulement.

**Ministeping Technique for Standard Stepping Motors 15912/76/253**

A pole-interpolation technique has been developed which enables a large increase in the angular resolution of conventional stepping motors; 12,800 ministeppings per revolution have already been extracted experimentally from a standard 200-step motor.

**LICENSES OFFERED FROM THE GERMAN DEMOCRATIC REPUBLIC**

Sixth listing of licenses offered, in selected fields of application, by factories and institutions of the German Democratic Republic. It is claimed that all techniques, products and devices have been extensively tried and are in use at various works in the GDR and elsewhere. Details of the *Welding Engineering* listed below are available from:

Department of Industry Trade and Commerce  
Industrial and Trade Enquiries Division (98/3)  
Ottawa, Canada  
K1A 0H5

**Sheet Panel Welding Equipment MBSA 58 and 59 GDR-1/253**

This equipment has been specially designed for welding plane sheet panels. Main fields of application include chemical plant construction, container construction, shipbuilding. By using this equipment, which is up to the latest state of technology, it is possible to achieve working widths of 6,000 up to 12,600 mm.

**Equipment for Producing Tightly Welded Pipe Walls GDR-2/253**

The main part of this equipment consists of a twin welder and a strip welding machine. The tightly welded pipe wall is finally handled mechanically on a machine combination by way of edging, cutting out of openings, separating and milling. This equipment serves for producing tightly welded pipe walls of up to 2,600 mm in strip width and up to at least 25,000 mm in strip length.

**Solution-Welding Equipment GDR-3/253**

Solution-welding is a new method for connecting small-diameter pipes under installations. Filler materials are applied containing metals of large iron dissolving capacity. The connection is realized by dissolving solid iron from the weld edges in liquid solution metal with the filler materials being of such a kind that a steel weld metal of low manganese and nickel content is produced by metallurgic reactions in the welding seam.

**Technique de minigraduation de moteurs répartitionnaires normaux 15912/76/253**

Une technique d'interpolation polaire a été mise au point; elle permet une augmentation considérable de la résolution angulaire des moteurs-répartitionnaires conventionnels; 12 800 minigraduations par révolution ont déjà été obtenues, à titre expérimental, d'un moteur normal de 200 échelons.

**OFFRES DE LICENCES DE LA RÉPUBLIQUE DÉMOCRATIQUE D'ALLEMAGNE**

Voici la sixième liste de licences offertes, dans certains domaines d'application, par les usines et institutions de la République démocratique d'Allemagne. On affirme que tous les produits techniques et dispositifs ont été expérimentés à grande échelle et sont utilisés dans diverses usines de la RDA et ailleurs. Les détails des *techniques de soudage* ci-après seront fournis par le:

Ministère de l'Industrie et du Commerce  
Division des renseignements industriels et commerciaux (98/3)  
Ottawa (Canada)  
K1A 0H5

**Équipement de soudage pour les panneaux de tôle MBSA 58 et 59 RDA-1/253**

Ce matériel a été conçu tout spécialement pour le soudage des panneaux de tôle plane. Les principaux domaines d'application sont la construction d'usines de produits chimiques, la construction des containers, la construction navale. En utilisant ce matériel, qui tient de la technologie de pointe, on peut réaliser des largeurs effectives de 6 000 à 12 600 mm.

**Équipement pour la production de parois de tuyaux à soudure serrée RDA-2/253**

Le gros de cet équipement est constitué d'un soudeur jumelé et d'une machine à souder par bandes. La paroi de tuyau à soudure serrée est enfin manutentionnée par une machine combinée qui déligne, sépare, usine les pièces et y découpe les ouvertures. Ce matériel sert à la production de parois mesurant jusqu'à 2 600 mm en largeur de bande et au moins 25 000 mm en longueur de bande.

**Équipement pour le soudage à solution RDA-3/253**

Le soudage à solution est une nouvelle méthode servant à raccorder les tuyaux à petit diamètre en voie d'installation. On applique des bourres contenant des métaux à grande capacité dissolvante à l'endroit du fer, puis on réalise le raccordement en dissolvant le fer massif des bords à souder dans une solution métallique; les bourres sont de nature à produire un métal de soudage à faible teneur en manganèse et en nickel par réaction métallurgique sur la ligne de soudure.

**Building-Block System for Building Machines GDR-4/253  
for Welding, Soldering and Thermal Separating**

These basic units comprise three groups: active basic units – performing all motion sequences of a machine, passive basic units – serving for assembly of the machine frame, MS-basic units – serving for machine control. The basic units are independent of the method and permit the assembly of machines for CO<sub>2</sub>–, WIG–, MIG–, MBL–, plasma- and UP-welding. Furthermore it is possible to use basic units for individual machine sub-assemblies in case of machines for special welding processes, e.g., laser- and electron-beam welding.

**Electric Gas-Welding Apparatus GDR-5/253**

Advantages of the apparatus: For EG-welding: arc and penetration to be observed during welding; compared with ES-welding, improved quality properties; higher welding speed, higher economy; possibility to interrupt the welding process without defect. For CO<sub>2</sub>-welding: better penetration conditions and even welds due to steady pendulum rhythm; perseverance of the arc at the weld flanks ensures correct penetration; possibility to weld concave fillet welds.

**Welding Apparatus for Minifillet Welds GDR-6/253**

Advantages of the apparatus: automatic welding of fillet welds of various thicknesses and lengths; self-centering when being applied to the welding seam edge; welds automatically after switching-on; exact observance of weld dimensions due to controlled welding parameters; no melting through of thin sheets; no weld defects due to automatic welding cycle.

**Small Protective Gas Welding Equipment GDR-7/253**

This small protective gas welding equipment is suitable for mechanized welding of bare wire by CO<sub>2</sub>, argon and mixtures of these.

**Système de modules pour les machines servant RDA-4/253  
à la soudure et à la séparation thermique**

Ces unités de base comprennent trois groupes: les unités de base actives – qui exécutent toutes les séquences mouvantes d'une machine, et les unités de base MS – qui servent au contrôle de la machine. Les unités de base sont indépendantes de la méthode et permettent d'assembler les machines pour le soudage CO<sub>2</sub>, WIG, MIG, MBL, au plasma et UP. En plus, on peut affecter les unités de base aux sous-assemblages individuels dans le cas des machines destinées aux procédés spéciaux, par exemple le soudage au laser et au faisceau d'électrons.

**Appareils de soudage électriques au gaz RDA-5/253**

Les avantages de ces appareils: Pour le soudage EG: on peut observer au cours du soudage l'arc et la pénétration; meilleure qualité au regard du soudage ES; plus grande vitesse, plus d'économies; on peut interrompre le procédé de soudage sans causer de défauts. Pour le soudage au CO<sub>2</sub>: meilleure pénétration et soudures égales grâce au rythme constant de pendule; la persistance de l'arc aux flancs de la soudure assure une pénétration correcte; possibilité de soudage à filets concaves.

**Appareils pour le soudage à minifilets RDA-6/253**

Advantages de l'appareil: soudage automatique des filets d'épaisseur et de longueur diverses; autocentrage lors des applications au bord de la ligne de soudure; soudage automatique après allumage; fidélité aux dimensions de soudure grâce aux paramètres contrôlés; aucune percée par fusion des tôles minces; aucun défaut imputable au cycle de soudage automatique.

**Petit équipement pour le soudage avec GDA-7/253  
protection par gaz.**

Ce petit équipement de soudure au gaz se prête au soudage des fils nus au moyen du CO<sub>2</sub>, de l'argon et des mélanges de ces deux gaz.

**RECENTLY ISSUED CANADIAN PATENTS AVAILABLE  
FOR LICENSING OR SALE**

Résumés of these patents are published in the language of application. English or French. Only patent titles are published in both official languages (see pages 17 to 20). Parties interested in discussing the rights to license any patent listed hereunder should contact the owner of each patent directly. The patent owner's name and address follows a brief summary of his patent. If a copy of the full patent is required it may be obtained for \$1.00 from the Commissioner of Patents, Hull, Quebec, Canada K1A 0E1.

**Extraction of Hydrocarbons in Situ From  
Underground Deposits 994,695**

This is a method of extracting hydrocarbons from an underground hydrocarbon deposit. A selected part of the deposit is heated by electrical induction to temperatures high enough to drive off hydrocarbon fractions as gases or vapors, which are then collected. The deposit may be heated through a coking and cracking stage. The electrical induction heating is conveniently effected by passing alternating current through a conductive path encompassing that part of the deposit to be heated.

Sidney T. Fisher, 53 Morrison Avenue, Montreal, Quebec;  
Charles B. Fisher, 2850 Hill Park Road, Montreal, Quebec,  
Canada

**Articulated Mop 996,321**

This articulated mop has a head of triangular cross-section to provide two mopping faces. A handle is secured to the remaining face of the head to swing between latch position for securely latching the handle and mopping only with the first face. It also has a neutral articulating position for securing the handle to the third face to allow mopping with a selected one of the two mopping faces and permitting free pivotal movement of the mop during use. A removable covering for the mop head has a series of uncut loops of mopping yarn secured to its mopping faces.

Catherine Jakimczyk, 512-6 Ave. South (rear), Lethbridge,  
Alberta, Canada

**Switching System for Guided Vehicles 996,410**

This system for the switching of guided vehicles vertically has a main and a secondary guideway each having a pair of spaced guides. The guides of the main and secondary guideways branch at a switching region and diverge vertically. The guided vehicle has a main support arrangement for running on the horizontal surfaces of the main guides to

**BREVETS CANADIENS RÉCEMMENT ÉMIS  
À VENDRE OU OFFERTS SOUS LICENCE**

Un résumé de l'invention est publié dans la langue de la demande de brevet, soit en anglais, soit en français. Seuls les titres sont publiés dans les deux langues officielles (voir les pages 17 à 20). Toute personne désireuse de discuter des droits d'exploitation sous licence de ces brevets doit s'adresser directement au détenteur du brevet dont le nom et l'adresse figurent à la suite du bref exposé. Les intéressés peuvent se procurer des exemplaires de brevets au prix de \$1.00 en écrivant au Commissaire des brevets, Hull, Québec, Canada K1A 0E1.

support the vehicle and a guide apparatus for running on the vertically disposed surfaces to provide lateral guidance.

Raymond F. Pasquan, 232 First Avenue, Toronto, Ontario,  
Canada

**Aneroid Barometers 996,415**

An indicator arm is connected by a slip clutch to a shaft operating the main barometer pressure indicating needle. As the indicator needle moves responsive to a change in atmospheric pressure, the indicator arm is moved accordingly from a set position.

William L. Cleghorn, 14 Stag Hill Drive, Toronto, Ontario,  
Canada

**False Eyebrows 996,439**

These false eyebrows formed of human or animal hair attached to a flexible material have an adhesive backing which will adhere to the skin or to the hair of natural eyebrows. The eyebrows are preshaped into a number of curved forms.

Marie O. Miller, 4615A Parkway, Sacramento, California  
95823, U.S.A.

**Hydraulic Device for Stretching the  
Tracks of a Tracked Vehicle 996,450**

This device comprises a closed circuit hydrostatic power transmission system in which the tracks are stretched by means of a hydraulic cylinder acting on the track idler. The stretching of the tracks is proportional to the resistance against vehicle motion during backward driving preventing buckling of the ground engaging part of the track.

Glamox A/S, 6400 Molde, Norway

- Production d'un facteur de transfert 996,481  
 On amène une culture de cellules lymphoblastoïdes à produire une plus grande quantité de facteur de transfert en lui ajoutant une certaine quantité de ce facteur. Le facteur de transfert ainsi produit est ensuite extrait et il peut servir à traiter la maladie.  
 Piktor Limited, 7 New Square, Lincoln's Inn, London W.C.2, U.K.
- Collapsible Container 996,520  
 This collapsible container has a base or bottom wall and an open border frame defining the top. Foldable side walls are hinged to the base and to the border frame, and end walls are hinged to the border frame. When the container is collapsed, the side walls fold inwardly and the end walls swing up and inward into the plane of the border frame.  
 Pinckney Molded Plastics, Inc., Pinckney, Michigan, U.S.A.
- Centrifugal Particle Elutriator and Method of Use 996,526  
 This consists of a method and apparatus for carrying out centrifugal elutriation using a rotatable cylinder with an inner annular cavity. Samples are introduced into the cavity at its central part. A suspending liquid is introduced into the cavity at the centrifugal side. A first portion of particles within the sample moves in the centripetal direction with the flowing liquid and a second portion of larger particles moves in the centrifugal direction. Exit ports at the centripetal and centrifugal sides of the cavity provide a means for continuously removing the separated first and second portions of particles.  
 The United States Energy Research and Development Administration, Washington, District of Columbia 20545, U.S.A.
- Isolation of a Medical Drug from an Aqueous Solution 996,575  
 L-dopa is isolated from an aqueous solution by ion exchange with a liquid ion exchanger which is a sulphonic acid dissolved in a suitable organic solvent to form a sulphonic acid salt of L-dopa. The L-dopa is liberated from the salt by neutralization with a base that precipitates the L-dopa. The result is separated from the solution which is regenerated by washing with a mineral acid, the obtained sulphonic acid solution being recycled for further use in isolating L-dopa. L-dopa can be used for the treatment of Parkinson's disease. The process of this invention can be carried out more economically than can known processes.  
 OY Medica AB, Teollisuuskatu 23-25, Helsinki, Finland
- Method for Making and Slurrying Wax Beads 996,609  
 Hydrocarbon mixtures are transported as a slurry by first fractionating the mixture into a relatively low pour point fraction and a relatively high pour point fraction. Thereafter a portion of the relatively high pour point fraction is congealed by introducing and dispersing it into a tower having a continuous stream of water flowing countercurrent to the introduction of the high pour point fraction. Concentration of the congealed particles within the slurry should be about 10% to about 50% by weight. Also, the average diameter of the congealed particles is about 0.1 to about 5 mm (Millimeters).  
 Marathon Oil Company, 539 S. Main St., Findlay, Ohio 45840, U.S.A.
- Vapor Degreasing Method and System 996,843  
 This is a vapor degreasing method and system where items to be cleaned of solid organic acids are mounted within the vapor section of a refluxing chamber. A two-phase liquid solvent system is contained in the bottom of the chamber. The solvent system comprises a basic solution in water, of sufficient strength to saponify the organic acid on the items, and an organic solvent which is immiscible with the aqueous solution.  
 Litton Industries, Inc., 360 North Crescent Drive, Beverly Hills, California 90210, U.S.A.
- Split Level Motor Home with Garage Compartment 996,979  
 A mobile housing unit with an integral garage. The mobile home unit includes a chassis, a wheel structure suspended from the chassis at its rear end and front wheel receiving seats provided on the suspended wheel structure for receiving the front wheels of an automobile in the garage. A ramp platform for supporting the rear wheels of the automobile flexibly is connected to the suspended wheel structure at the front end and to the mobile housing unit at its rear end. A loading ramp is hingedly connected to the platform and is adapted to close the garage door. The largest proportion of the weight of the automobile is thereby supported on the independent wheel structure suspended from the chassis.  
 Michel G. Renaud, 71 Youville, Varennes, Quebec, Canada
- Dispositif de synchronisation à la réception d'une transmission de données 997,070  
 L'invention concerne un dispositif de synchronisation à la réception d'une succession de bits servant à identifier l'instant d'apparition d'une transition télégraphique dans des

intervalles de temps d'une longueur uniforme, synchronisation basée sur un comptage d'intervalles sans transition.

Compagnie Industrielle des Télécommunications Cit-Alcatel, 12 rue de la Baume, 75008 Paris, France

Commutateur temporel à propagation contrôlée 997,077

Il s'agit d'un commutateur temporel comportant des moyens de propagation (lignes à retard) dans lesquels les informations entrantes se propagent pendant un certain temps, ce temps étant déterminé par l'écart en temps réel séparant le canal du multiplex entrant du canal du multiplex sortant acheminant les informations.

Société Lannionnaise d'Electronique, Route de Perros-Guirc, 22- Lannion, France; Compagnie Industrielle des Télécommunications Cit-Alcatel, 12 rue de la Baume, Paris 8e, France

Device for Brushing Dentures 997,113

This device consists of an elongated handle with a head at one end, having four flat surfaces extending in the longitudinal direction into two pairs of opposite parallel surfaces, one pair extending at right angles to the other pair. Each two adjacent surfaces are separated by a rounded edge extending in the longitudinal direction. Bristles disposed in rows extending in that direction extend outward from each of three adjacent surfaces at right angles. Additional non-intersecting rows of bristles extend outward in a non-intersecting manner from the edges disposed between each of the outer adjacent surfaces and the inner adjacent surface.

Joseph A. Leonard, 330 Mar Vista, Log Asos, California 93401, U.S.A.

Clip Ring 997,164

In this invention, the clip is opened by the squeezing of the ring itself, contrary to known mechanisms which operate independently of the ring and are opened or closed by the pushing, pulling, squeezing or lifting of the clip or part of the clip itself.

Doreen E. Michael, P.O. Box 2238, Clearbrook, B.C. V2T 3X8, Canada

Ratchet Implement 997,180

The application discloses a ratchet implement formed of a hollow handle into which a tool, such as a screwdriver, is inserted for rotation. The bore of the housing is formed as a ratchet wheel and the tool driven end has a pair of diametrically opposed arcuate grooves running longitudinally of the tool driven end. A pair of rocking pawls having

opposed driving edges are mounted, each in one groove, for operative engagement of the driving edges with the ratchet wheel and with one groove, respectively. Spring-pressed sludge hold the pawls in driving engagement and these slugs can be shifted to cause the pawls to rock and engage the driving edges. Inversely with respect to the ratchet wheel and grooves.

John P. Albert, P.O. Box 814, Shediac, New Brunswick, Canada

Apparatus for Generating Proportional Cams From a Master Cam 997,183

A cam generating apparatus includes two slides movable in mutually perpendicular directions on a base. One of the slides, called the X-direction slide, carries a master cam. The other slide, called the Y-direction slide, carries a cam follower which engages and follows the contour of the master cam. A pair of adjustable proportioning arms connect one with each of the slides to provide X- and Y-direction outputs which are proportional to the movements of the slides. These outputs drive a cam blank relative to a cutter to generate a cam contour which has an amplitude and a length proportional to the configuration of the master cam.

Paul Maenner, 2959 Scarborough Road, Cleveland, Ohio 44118, U.S.A.

Deflector Rudders 997,218

This consists of a propeller nozzle in which the walls terminate in two or more planes inclined symmetrically about an axis normal to the nozzle centerline with one or more deflector rudders; these are pivotally mounted across the opening in a manner that by swinging the rudder one half of the exit area may be closed and the propeller race diverted through the remaining open area. The turning capabilities of a fixed nozzle or duct are improved and wetted area may be reduced and propulsive efficiency increased by recovery of rotational energy otherwise lost to the wake. When used in conjunction with a pivoted steering nozzle a reverse thrust may be developed.

Ronald G. Fuller, P.O. Box 337, Hudson Heights, Quebec JOP 1J0, Canada

Fuel Injection Systems 997,234

This fuel injection system for an internal combustion engine, includes at least one fuel injector nozzle, one interrupter valve connected to control fuel flow through the nozzle(s) and an interrupter valve control mechanism which is operable to control actuation of the interrupter valve(s) to determine the fuel injection quantity. The control mechanism includes an energy storage device which, during the period between one point of an engine operating cycle and the same point of

the next cycle, stores energy over one portion of the period and then releases it during the remaining portion of the period, the interrupter valve(s) being actuated for a length of time determined by the length of the remaining portion of the period.

Tecalemit Limited, Plymouth, Devon, PL6 8LA, U.K.

Fuel Injection Systems 997,235

This fuel injection system for an internal combustion engine, includes at least one fuel injector nozzle, one interrupter valve connected to control fuel flow through the nozzle(s), and an interrupter valve control mechanism which is operable to control actuation of the interrupter valve(s) to determine the fuel injection quantity. The control mechanism includes an energy storage device which, during the period between one point of an engine operating cycle and the same point of the next cycle, stores energy for at least one period of time determined by the interval between engine ignition pulses and then releases energy, the interrupter valve(s) being actuated for a length of time determined by the energy-release time of the storage device.

Tecalemit Limited, Plymouth, Devon, PL6 8LA, U.K.

Braking Apparatus for Hoists 997,283

This consists of a braking mechanism for a hoist incorporating two winding drums with brakes and a bridge pipe containing a stop valve interconnecting the individual fluid supply lines leading from the control valves to the fluid pressure means. It also has isolator stop valve means arranged to control the flow of operating fluid to the control valves. The stop valve in the bridge pipe and the isolator stop valve may be arranged for remote control.

Fullerton, Hodgart & Barclay Limited, Vulcan Works, Paisley, U.K.

Mine Hoists 997,284

A mine winder has two cable drums and a braking mechanism for each. Each braking mechanism includes means operable to sense if the cable is moving and in which direction and the length of cable paid out and to issue a control signal containing this information. Brake control means can be operated on receipt of the control signal to operate braking means and apply to the drum a braking effort based on the information in the control signal. A cable movement detector sensitive to the speed of movement of the cable may be provided to be operative to send a corresponding control signal to the brake control means. The braking means may be air-pressure operated, the brake control means adjusting the air pressure according to the control signal received.

Fullerton, Hodgart & Barclay Limited, Vulcan Works, Paisley, U.K.

Pipe Part With a Widened End 997,393

This consists of a plastic pipe end or socket with a circumferential groove. The bottom of the groove is provided with a round recess on its outer side and a corresponding ridge on its inner side. The most inwardly situated upstanding wall of the recess merges with the bottom. The ridge mates with a corresponding groove provided in a sealing ring carried by the socket to prevent unwanted movement of the socket with respect to the groove during coupling and uncoupling of a pipe end. A method for forming the pipe part is also disclosed.

Wavin B.V., 251, Handellaan, Zwolle, Netherlands

Procédé de guidage du faisceau d'un tube à écran luminescent et tube faisant application du procédé 997,465

Ce procédé est caractérisé en ce que l'on asservit le spot d'un faisceau maître à suivre des moyens de guidage portés par l'écran et sensibles à la position dudit spot en modulant la commande de l'un des deux balayages précédents à l'aide d'un signal d'erreur déduit des indications fournies par lesdits moyens de guidage. Application aux techniques de la télévision.

Jean Lejon, 16, boulevard Sault, 75 - Paris 16e, France

Semi-stabilized Shipborne Antenna 997,466

A gimballed-platform-mounted antenna arrangement for semi-stabilizing the orientation of the antenna of said arrangement on a ship, said arrangement being semi-stabilized in use by means of its having a long natural period of oscillation and a high moment of inertia. This is effected by providing a structure of mass  $M$  kg and moment of inertia  $I$  kg.m<sup>2</sup> gimbally mounted pendulously by bearing means defining axes of rotation intersecting at a pivotal centre. The centre of gravity of the structure is  $L$  m below said pivotal centre, the bearing means have a maximum total Coulomb friction torque  $T$  N.m about any of said axes and, by the invention,  $L \leq 0.002 I/M$  and  $T \leq 0.00075 I$ .

The Post Office, 23 Howland Street, London WIP 6H2, England, U.K.

Self Tracking Beam Accessible Memory and Addressing Method 997,469

A light beam or an electron beam is deflected by analog methods to one of a series of acceptance zones, each serving a multiplicity of words arrayed in one dimension of the memory and accessed by a word selection line or stripe directed in the other dimension of the array. Each word selection line is an extension of a median line of the acceptance zone to which it relates. Pairwise distinctive

guiding means are provided in each acceptance zone on either side of the median and as borders on either side of each word selection stripe, of such a kind as to generate a pair of distinctive signals when swept by the access beam. From these signals an error signal is derived and applied to the deflection circuits to provide tracking of the beam.

Controle Bailey, 5, avenue Newton, 92 140 Clamart, France

Handsfree Loudspeaking Key Telephone Set and a Switching Circuit for Use in a Microphone and Loudspeaker Equipped Key Telephone 997,492

A key telephone system is disclosed in which each key telephone is provided with a voice-switched microphone and loudspeaker for operation over central office or intercom lines. If a key telephone engaged in a central office call is called on an intercom line by another key telephone, incoming voice signals on the intercom line will be heard on the called key telephone loudspeaker. The called subscriber may then operate a holding key which will hold the central office call, speak to the intercom caller through his microphone and loudspeaker for a brief period, release the intercom call and resume the conversation on the central office line.

Nippon Tsu Shin Kogyo K.K., 260 Kitamikata Takatsu-ku, Kawasaki-shi, Kanagawa-ken, Japan; TIE/communications, Inc., 40 Warshaw Place, Stamford, Connecticut, U.S.A.

Mobile Concrete Manufacturing Plant 997,536

This mobile concrete prefabricating plant is adapted to be moved from one site to another and also movable around the site. The mobile manufacturing plant includes a concrete mixing unit, a component manufacturing unit including means for forming the concrete components, for storing the components and curing the components while in storage. The formed components are moved from a forming position through the storage and curing area on conveyors and the curing area consists of a rotary wheel assembly which in one instance may be a ferris wheel type and in another instance rotatable in a horizontal plane. There is also provided a unitary mobile unit for unloading and handling the cured components.

Andre Pilish, P.O. Box 1030, Armdale, Nova Scotia, Canada

Temperature-Inverted Fracturing Fluid 997,547

These water-external surfactant mixtures useful for fracturing subterranean formations and which show a viscosity increase on temperature increase are obtained by mixing 2-70% by volume hydrocarbon, 25-95% by volume aqueous medium, at least about 1.5% by volume surfactant and optionally 0.01-20% by volume cosurfactant and/or

0.001-5% by weight electrolyte (based on the aqueous medium). In addition, the surfactant mixture can contain 0.001-5% by weight, based on aqueous medium, of a water-soluble polymer that imparts an increase in viscosity, propping agents, etc.

Marathon Oil Company, 539 South Main Street, Findlay, Ohio 45840, U.S.A.

Multiple-Pane Glazings 997,625

This multiple pane glazed unit is composed of at least two sheets of glass and a metal ribbon positioned between each adjacent pair of sheets and soldered adjacent the edges in order to define a groove between each adjacent pair of sheets. For avoiding the deformation of the metal ribbon there is provided at least one spacing member disposed in the groove adjacent the metal ribbon externally in relation to the region enclosed by the metal ribbon and between the pair of sheets. Each spacing member is rigid and has a compression resistance higher than the one of the metal ribbon.

Glaverbel-Mecaniver, 166, Chaussée de la Hulpe, Watermael-Boitsfort, Belgium

Attelle Gonflable 997,640

Cette attelle pour membres de vertébrés comporte une armature formée d'une pièce en forme de U constituée par deux montants et une traverse du côté de l'extrémité du membre et deux arceaux unissant les extrémités libres du U. Elle est caractérisée par le fait que l'armature comprend un étrier rejoignant les deux montants de la pièce en U, au moins un des arceaux étant démontable. De plus un ensemble de coussins gonflables est fixé entre les montants de façon à pouvoir entourer en tout ou partie le membre placé entre les montants et passant entre les arceaux. L'attelle est, de préférence, transparente aux rayons X.

Institut Européen de Recherches et D'Applications Médicales I.E.R.A.M., 31 rue de Chabrol, 75 Paris 10e, France

Core Storing Mounts for Single Roll Dispensers 997,715

A compact dispensing device consists of a drum-like element and releasable mounting means as a replacement for the conventional spindle or shaft bearing a roll of toilet tissue. The device provides both means for rotatably bearing the roll of toilet-tissue and storage and dispensing means for any of a series of toilet accessories. It enables the use of a standard toilet-tissue dispenser without necessitating any basic modification.

Phillip Boone, 15 Fenwick Road, Winchester, Massachusetts 01890, U.S.A.

Cathodic Condition Remote Monitoring System 997,839

This analog-to-digital converter for converting angular positional information of a shaft associated with a dial register of a meter into binary coded outputs includes a non-contacting encoder for providing coded output signals. The signals represent ten digit positions and ten interdigital positions of the shaft and output decoding circuits for providing round-off of interdigital position codes and conversion of the coded signals to a two-out-of-five code. Cathodic protection condition monitoring circuits provide outputs over the decoding circuits representing the cathodic condition of apparatus associated with the meter. Readout circuits effect the transmission of the coded output signals representing meter reading data and the cathodic protection condition for the apparatus associated with the meter to an interrogate source.

Northern Illinois Gas Company, East-West Tollway at Route 59, Aurora, Illinois 60507, U.S.A.

Differential Amplifier 997,867

This differential magnetic deflection amplifier comprises a plurality of cascaded, Class A biased, emitter-coupled differential amplifier stages driving a high current output stage operated in a Class A-B bias. An antisaturation clamp is provided to assure linearity of feedback signals during major position moves, and voltage-on-demand means is provided to reduce power dissipation.

Litton Industries, Inc., 360 North Crescent Drive, Beverly Hills, California 90210, U.S.A.

Signal Interrupter Circuit for a Key Telephone System 997,874

In this interrupter circuit for a key telephone system a series of flip-flop circuits, oscillators and "NAND" gates are used to generate two staggered periodic signals each representing one of two simultaneously occurring continuous signals. The circuit finds application in the audible signalling circuit of a key telephone system to permit distinguishing between two simultaneously occurring intercom and central office (or PBX) calls.

TIE/communications, Inc., 40 Warshaw Place, Stamford, Connecticut, U.S.A., Nippon Tsu Shin Kogyo K.K., 260 Kitamikata, Takatsu-ku, Kawasaki, Kanagawa-ken, Japan

Direct-Station-Selection Intercommunication and automatic holding Circuit in a Key Telephone System 997,875

This apparatus is incorporated in an operator attended key telephone set for answering incoming calls, to the key telephone system, placing such calls on hold, communicating

with other key telephone sets in the system while the incoming call is held and transferring the call to another key telephone set.

TIE/communications, Inc., 40 Warshaw Place, Stamford, Connecticut, U.S.A., Nippon Tsu Shin Kogyo K.K., 260 Kitamikata, Takatsu-ku, Kawasaki, Kanagawa-ken, Japan

Automatic Voice-Path Switching Circuit for a Speaker Phone Telephone Set 997,877

The specification discloses a loudspeaking telephone set comprising a microphone and a loudspeaker. The microphone is used to generate outgoing voice signals and is connected to an office line by way of a first switching circuit, where the incoming voice signals are connected to a loudspeaker by way of a second switching circuit. The first and second switching circuits are controlled by a measuring circuit which generates a control signal proportional to the difference between outgoing and incoming voice signals.

TIE/communications, Inc., 40 Warshaw Place, Stamford, Connecticut, U.S.A., Nippon Tsu Shin Kogyo K.K., 260 Kitamikata, Takatsu-ku, Kawasaki, Kanagawa-ken, Japan

Frost Plug Removing Tool 997,915

This device enables the frost plug to be grasped and manipulated for removal after it has been displaced into the coolant chamber or passage by inserting same from the upper side of the block with the jaws engaging the plug through the aperture. By pressing the upper end of the handle towards the other side of the block, leverage pressure is applied to the plug to force it outwardly through the frost plug aperture.

William J. Zimmer, 341 Toronto Street N., Regina, Saskatchewan, Canada

Device For Wrapping Yarn Around Nelson Rollers 997,921

This device for wrapping yarn around nelson rollers consists of a pair of rollers with their axes arranged side by side but spaced apart wider at their free ends than at the supported ends and rotating together. A guide is located above and on a plane extended from a point of the pair of rollers and adapted to revolve around both rollers thereby to pass the yarn in a desired number of wraps therearound. After having wrapped the yarn in this manner, the guide is kept out of direct contact with the running yarn.

Mitsubishi Jukogyo Kabushiki Kaisha, 5-1 Marunouchi 2-chome, Chiyoda-ku, Tokyo, Japan

Educational Game 997,929

This is an educational game for the teaching of multiplication in a competitive game of skill, utilizing a special game board, a deck of special playing cards, and a set of markers.

The Raymond Lee Organization, Inc., 230 Park Avenue, New York, New York, U.S.A.; Willis T. Stratton, 320 14th St., Paso Robles, California 93446, U.S.A.

Rhombo-rotary Engine 997,998

This rotary combustion engine is suitable to be applied with reduced weight and improved output to road vehicles, boats and aircraft. It comprises at least one stationary housing and one moveable rotor mechanism with mainshaft, and the following characteristics: a cam-actuated rhombic linkage rotor is hingedly connected to a synchronous mainshaft and while performing two symmetrical bi-axial pulsations within a trochoidal housing is delivering four complete four-phase combustion cycles in one revolution.

Ernest A. Steinbrink, Kenmount Road, P.O. Box 1451, St. John's, Newfoundland, Canada

Printing Method and System Therefor 998,016

This is a printing method and system adapted to replace photography, cinematography and photocopying without the use of any photosensitive film. The system consists of electrically imprinting an image into an electrically reactive layer. In particular, an electrolytic printing wherein electrodes are arranged in contact with a suitable viscous electrolyte layer to produce, upon selective energization, gas bubbles of different depths of penetration into the viscous electrolyte layer adjacent the corresponding electrodes. This makes corresponding imprints into the layer and thereafter hardening the latter to retain the image reproduced.

Adrien Castegnier, 325 Melbourne Avenue, Ville Mont-Royal, Quebec, Canada

Liquid Measuring and Dispensing Apparatus 998,021

This apparatus for measuring and dispensing liquids includes a flexible container which is squeezably operated to increase the internal pressure. It operates a fluid control valve mounted in a filler tube for discharging a quantity of fluid into a measuring receptacle placed on the container. The decrease in pressure within the container due to the discharge of fluid causes to open an air inlet valve allowing air to enter the container when the container is released.

L. Laslo Por, 1171 Ambleside Drive, Apt. 1801, Ottawa, Ontario, K2B 8E1, Canada

Method and Circuitry for Controlling the Output Condition of a Synchronous Reluctance Motor 998,094

These are a method and a circuitry for controlling the output torque condition of a self-excited alternating current motor of the synchronous reluctance type, by means of establishing the magnitude and phase displacement of the stator current

at preselected values. The circuitry comprises a motor control having a frequency control inverter for providing a stator current of a desired frequency and phase displacement to the motor. A controlled power supply is also provided for regulating the magnitude of the stator current to a predetermined value. The invention obtains the speed control of self-excited alternating current motors.

Litton Industrial Products, Inc., 427 East Stewart Street, Milwaukee, Wisconsin, U.S.A.

Process for Constructing Wide Underpasses Beneath Road Structures, Particularly Railroad Structures, and Prefabricated Abutments or Pillars 998,211

The process permits the installation of suitable abutments and central pillars beneath existing road structures with a minimum delay in the traffic flow over the road structure. Abutments are first positioned beneath the road structure with the areas adjacent the top of the abutments being provided with fillers in the form of coverings. The fillers are provided to enable the building of additional superstructure supports on the said areas after the abutments have been placed in position. The fillers are of generally inverted U-shaped configuration for providing working area beneath the fillers and enabling the formation of the superstructure support.

Fa. emka Ingenieurgesellschaft m.b.H., 2 Hamburg 39, Ulminstrasse 21, Federal Republic of Germany

Humane Trap 998,243

The trap consists of a pair of rings pivotally secured together at one side in juxtaposition one with the other. A tension spring between offset portions on each ring is fully extended and biases the rings to the non-concentric or sprung position whereby an animal may be trapped between the lower portion of one ring and the upper portion of the other ring. The trap is held in concentric or set position either by means of a pan or foot treadle trigger mechanism adjacent to the base of the rings or by a swinging trigger mechanism between the upper sides of the rings. This swinging trigger can operate the trap by movement of an animal through the rings in either direction and the trap can be used on land or in the water as desired.

Henry W. Steiner, Box 18, Site 19, R. R. #1, Dryden, Ontario, Canada

Continuous Food Cooking Device 998,286

A conveyor moves a train of food items, particularly meat items mounted on skewers, at a constant rate past a heat source of constant intensity toward a discharge point where the food items are collected. The conveyor has indicia marked along the path it traverses indicating predetermined

starting points on the conveyor for the food items. The indicia correlate the distances from the starting points to the discharge point with an identifying characteristic of a food item first entered on the conveyor at such starting points, for example, the type of food to be cooked, the extent it is to be cooked, and the like.

Steven Zenos, 1520 Sagebrush Trail, S.E. Albuquerque, New Mexico 87123, U.S.A.

Filtration variable et réglable des fumées de tabac 998,309  
et dispositifs filtrants qui en résultent

La présente divulgation se rapporte à un filtre, notamment pour cigarettes, capable de réaliser à volonté et sous le contrôle du fumeur au moins deux régimes de filtration différents dont un impliquant une filtration efficace pouvant être ajustée. Le filtre comporte un conduit principal de passage de la fumée formant un foyer de conditionnement mécanique de fumée. Le foyer est constitué de façon à permettre à l'utilisateur de varier et régler la section de passage de la fumée. De plus une pièce de retention de filtrat est disposée à une extrémité du conduit principal et adjacente au foyer.

Abdellah A. Fahir, 1 rue Tiddas, Rabat, Maroc

Vehicle Supported Collapsible Shelter 998,315

This collapsible shelter is adapted to be supported by a vehicle having a rear bumper, a roof and a rear roof edge, through a series of removable brackets affixed to the vehicle. Some of the brackets are affixed to the rear bumper and some to the rear roof edge. A first series of removable support members are affixed to the brackets and a second series to the first series of support members and to each other. They are independent from the ground on which the vehicle rests and form a framework over part of the vehicle and over an area of ground behind the vehicle. Covering removable material is affixed to the support members for enclosing the area bordered by the framework and the vehicle and extends to the ground.

Arthur D. Hardinge, 219 Linden Avenue, Scarborough, Ontario, Canada

Manufacture of Tubes 998,322

This specification describes a tube construction and its manufacture using a layer of longitudinal fibres embedded in synthetic resin and bound together by an outer layer of fibres which may be helically wound or plaited. The outer layer of fibres may also be embedded in synthetic resin. The inner surface of the tube may be coated with a conductive material so as to form a substantially continuous surface and to produce a waveguide. The object of the invention is to produce a tube of great stiffness so that when used as a

waveguide it does not depart significantly from the straight under its own weight.

The Post Office, 23 Howland Street, London W1P 6HQ, U.K.

Dump Box Body Cover Mechanism 998,409

This tarpaulin normally covers the top of the dump box when the box is in the lowered position. Cables are attached on each side of the tarpaulin to a pivoted cross bar near the rear of the box. These cables pass through guides and extend forwardly to the front of the box and then are anchored either to the cab body or, after passing around a pulley, to the underside of the box. As the box is elevated to dump, the cables pull the tarpaulin from the rear to the front of the box and automatically uncover the load.

Sylvie Azzano, General Delivery, Rosedale, Alberta, Canada

Toy Karate Device 998,528

This toy karate device has a separable board made from two mating separable pieces held in end to end by a retainer which permits separation when the board is struck with the hand to simulate the board being broken in two by a karate chop. The board is provided with a support placed under each end and is struck in the center while lying horizontally on the blocks. The retainer is a strip of cardboard or other yieldable material, or may be an adhesive or magnetic device.

Paul E. Milliken, 9061 Wall Street, NW Massillon, Ohio 44646, U.S.A.

Rotary Veneer Clipper 998,605

This rotary clipper for veneer is equipped with a thin blade which cuts through veneer while moving in the same direction as the veneer over a supporting drum. The blade has an edge opposite its cutting edge which bears against a bracing drum while the blade cuts through the veneer. The drum and the blade are synchronized and rotated so that the cutting edge of the blade moves over the face of the drum at the same speed as the veneer moves over that drum.

Durand Machine Company Ltd., 101-11th Street, New Westminster, British Columbia, V3M 4C4, Canada

Dispositif d'entraînement de papier sur tambour tournant 998,660

Il s'agit d'un dispositif d'entraînement de papier agencé de façon à faire adhérer par une manoeuvre mécanique simple un papier sensible vierge ou un document sur un tambour tournant. Le tambour présente le papier ou le document à un organe scripteur, ou à un organe lecteur, respectivement, et l'extrait ensuite à la fin du traitement.

Compagnie Industrielle des Télécommunications Cit-Alcatel, 12 rue de la Baume, 75008 Paris, France

Combination Folding Tent Camper and Cargo Cover 998,713

This camper's shelter has a separable, adjustable, folding metal frame that supports a tent like covering. The frame, which rests in the stake pockets of a truck body, is constructed with hinge like joints allowing it to move to the degree of a right angle from the truck when the shelter is erected, and allowing it to fold when the rods between the ends of the frame are removed. The covering may have various arrangements of screened openings for ventilation or a canopy. The tent like covering, when folded for travelling, creates a cargo cover.

Vera H. DeWitt, Centreville R. R. #4, New Brunswick, E0J 1H0, Canada

System for Ion Production 998,733

The present invention deals with ion producing means for the treatment of atmospheric air and similar gaseous media environments and more specifically refers to an air treatment system through ionization in rooms and other enclosures. The invention relates to a system for producing ions in predetermined concentrations, preferably of over 5 sk (propagating capacity) at high mobility k, while substantially suppressing or keeping to a minimum the content of ozone and similar undesirable constituents of atmospheric air.

Walter O. Stark, Lugano-Magliaso 6983 (Tessin), Switzerland

Barre de sécurité à absorbant pulvérulent pour réacteur nucléaire 998,784

Il s'agit d'une barre sécurité à absorbant pulvérulent pour réacteur nucléaire qui comporte un réservoir à trois compartiments superposés. Le compartiment inférieur situé dans le coeur du réacteur et rempli de gaz sous pression à l'aide d'une canne creuse déconnectable, le compartiment intermédiaire situé juste au-dessus du coeur contenant l'absorbant et communiquant avec le compartiment inférieur, le compartiment supérieur situé dans le réacteur et communiquant avec le compartiment intermédiaire. Lorsque la canne est déconnectée, tout l'absorbant pulvérulent chute dans le compartiment inférieur.

Groupelement Atomique Alsacienne Atlantique, 20 avenue Edouard Herriot, 92350 Le Plessis Robinson, France

Knock-down Joint Between Frame Members 998,819

This joint comprises a pair of frame members, each having a flat end face and a flat side face; the two members are interconnected with the end face of one member flatly abutting the side face of the other and a connector for securing the two frame members together. This connector has a flat plate mounted for sliding motion in a track running along the flat side face of one member and opening into

the flat end face of the other member. A screw is mounted for rotation on the plate to project perpendicularly therefrom and a flat lug integral with the first plate as an extension bent over the screw.

Jacques Canin, 1708 west, Notre-Dame Street, Victoriaville, Quebec, Canada

Adjustable Fastening Device for Large Precast Concrete Panels 998,848

The invention is a fastener for connecting large precast concrete wall, floor and roof panels together in cross and tee configurations. The fastener is compatible with normal manufacturing tolerances for precast concrete and can be adjusted to erect, position and secure the panels in a cellular, box-type building.

Forbes F. Gauld, 1888 Nanton Ave., Vancouver, British Columbia, Canada V6J 2X8

Milling Cutter for Root Canal Penetration 998,861

This milling tool for root canal penetration is adapted for preparing teeth for the placement of artificial pegs. The tool comprises a cylindrical shaft having a milling cutter provided adjacent a leading end with both the milling cutter and leading end having a substantially frustoconical outer surface. The milling cutter is provided with three cutting blades positioned on the frusto-conical outer surface evenly spaced circumferentially around a longitudinal axis of the tool. The present tool avoids breakages, misalignment, and blockages commonly encountered with known prior art devices.

Marc Reynaud, 16 Blvd. Gambetta, 3800 - Grenoble, France

Grannular Coated-Molasses Product and Process 998,874

The product takes the form of free-flowing granules, each containing a droplet of liquid molasses which is coated with particles of diatomaceous earth. The product is prepared by merging streams of liquid molasses and diatomaceous earth particles, which merging results in the molasses breaking up into droplets that become coated by the particles.

International Feed Improvement Association, Inc., Autumn Hills Road, Minden, Nevada, U.S.A.

Classifying Apparatus 998,963

This article classifying device comprises means for conveying articles in series to a work station. At the work station means are provided for establishing a machine readable classification code on each article. The device also includes means for varying the speed of the conveyor.

The Post Office, 23 Howland Street, London W1P 6HQ, U.K.

**Aerosol-can Dispensing Cap 998,975**

This dispensing cap for use on a pressurized aerosol-type can is characterized by a circular, pressure-receptive diaphragm flexibly spanning the upper reaches of a wall means surrounding the discharge part of the can. A liquid conduit between an orifice centered in the diaphragm transfers pressure applied to the diaphragm and an orificed depressible valve actuator element in the discharge part. Light manual application of a compress to the diaphragm results in the emission of a portion of the pressurized contents of the can and wetting of the article.

Kenneth W. Gores, 1026-112th St. N.E., Bellevue, Washington, 98004, U.S.A.

**Mining Machines 999,015**

This mineral mining machine has a cutter jib carrying a cutter chain and pivotally supported by a pivot support arm constituted by a rigid housing assembly for the cutter chain drive.

Coal Industry (Patents) Limited, Hobart House, Grosvenor Place, London S.W.1, U.K.

**Multiphase Signal Generator 999,056**

The disclosure describes a multiphase signal generator suitable for feeding a number  $q$  of output terminals by supplying to each of them an output signal existing during operating periods only. The order of succession of the operating periods of these various output signals is predetermined.

Société JATEC, Immeuble Steiger, Corniche du fleuve, Beyrouth, Liban

**Patent Titles in English**

- Extraction of Hydrocarbons in Situ from Underground Deposits 994,695
- Articulated Mop 996,321
- Switching System for Guided Vehicles 996,410
- Aneroid Barometers 996,415
- False Eyebrows 996,439
- Hydraulic Device for Stretching the Tracks of a Tracked Vehicle 996,450
- Production of a Transfer Factor 996,481
- Collapsible Container 996,520
- Centrifugal Particle Elutriator and Method of Use 996,526
- Isolation of a Medical Drug from an Aqueous Solution 996,575

**Système de visualisation graphique 999,067**

Ce système de visualisation graphique d'informations, données sous forme binaires, sur l'écran d'un tube cathodique, est caractérisé par le fait qu'il comporte un organe de commande de blocage d'affichage sur l'écran. A chaque changement de position du spot donné par une nouvelle information, il effectue les comparaisons respectives des chiffres binaires de plus forts poids de la position précédente du spot avec ceux de même poids de la nouvelle position. Ceci est en vue de déclencher l'émission d'une impulsion de blocage d'affichage de durée déterminée fonction du poids des chiffres binaires comparés et détectés différents.

Compagnie Industrielle des Télécommunications Cit-Alcatel, 12 rue de la Baume, 75008 Paris, France

**Détecteur de parole pour concentrateur de voies téléphoniques 999,072**

Les échantillons prélevés sur une voie téléphonique sont pondérés selon l'amplitude de chacun d'eux et la cadence des changements de polarité. L'appareil en déduit une "note" pour chaque échantillon, positive ou négative, fait la somme de toutes les notes cumulées, et décide "activité de parole" si la note cumulée dépasse un certain seuil, et "non activité" si la note passe au-dessous d'un deuxième seuil inférieur au précédent.

Compagnie Industrielle des Télécommunications Cit-Alcatel, 12 rue de la Baume, 75008 Paris, France

**Titres des brevets en français**

- Extraction des hydrocarbures in situ de dépôts souterrains
- Vadrouille Articulée
- Système de commutation pour véhicules guidés
- Baromètres anéroïdes
- Faux sourcils
- Tendeur hydraulique de chemilles pour véhicules chenillés
- Production d'un facteur de transfert
- Récipient pliant
- Séparateur centrifuge de particules et méthode d'utilisation
- Isolation d'une drogue médicale à partir d'une solution aqueuse

Method for Making and Slurrying Wax Beads	996,609	Méthode de production et de suspension des perles de cire
Vapor Degreasing Method and System	996,843	Méthode et système de dégraissage à la vapeur
Split Level Motor Home with Garage Compartment	996,979	Maison mobile à demi-étage avec garage
Synchronizing Device for Receiving Data Transfers	997,070	Dispositif de synchronisation à la réception d'une transmission de données
Controlled Propagation Time Switch	997,077	Commutateur temporel à propagation contrôlée
Device for Brushing Dentures	997,113	Dispositif de brossage des dentiers
Clip Ring	997,164	Bague de fixation
Ratchet Implement	997,180	Outil à rochet
Apparatus for Generating Proportional Cams From a Master Cam	997,183	Appareils de production de cames proportionnelles à partir d'une came maîtresse
Deflector Rudders	997,218	Défecteurs
Fuel Injection Systems	997,234	Systèmes à injection de carburant
Fuel Injection Systems	997,235	Systèmes à injection de carburant
Braking Apparatus for Hoists	997,283	Appareil de freinage pour treuil
Mine Hoists	997,284	Treuil de mine
Pipe Part With a Widened End	997,393	Raccord de tuyauterie avec bout évasé
Process for Guiding the Beam from a Fluorescent-screen Tube and a Tube for Implementing the Process	997,465	Procédé de guidage du faisceau d'un tube à écran luminescent et tube faisant application du procédé
Semi-stabilized Shipborne Antenna	997,466	Antenne semi-stabilisée de bateau
Self Tracking Beam Accessible Memory and Addressing Method	997,469	Mémoire accessible par autopointage et méthode d'adressage
Handsfree Loudspeaking Key Telephone Set and a Switching Circuit for Use in a Microphone and Loudspeaker Equipped Key Telephone	997,492	Un appareil téléphonique à haut-parleur automatique et un circuit de commutation pour utilisation dans un appareil téléphonique à clavier muni d'un microphone et d'un haut-parleur
Mobile Concrete Manufacturing Plant	997,536	Usine à béton mobile
Temperature-Inverted Fracturing Fluid	997,547	Fluide de fracturation à température inversée
Multiple-Pane Glazings	997,625	Vitrages à carreaux multiples
Inflatable Splint	997,640	Attelle gonflable
Core Storing Mounts for Single Roll Dispensers	997,715	Montures de distributrices de papier hygiénique à rouleau simple
Cathodic Condition Remote Monitoring System	997,839	Système de télé-surveillance de l'état de la protection cathodique
Differential Amplifier	997,867	Amplificateur différentiel
Signal Interrupter Circuit for a Key Telephone System	997,874	Circuit d'interruption de signal pour système téléphonique à clavier
Direct-Station-Selection Intercommunication and Automatic Holding Circuit in a Key Telephone System	997,875	Sélection d'intercommunication directe de poste à poste et circuit de maintien automatique dans un système téléphonique à clavier

Automatic Voice-Path Switching Circuit for a Speaker Phone Telephone Set	997,877	Circuit de commutation automatique du trajet de conversation pour appareil téléphonique "Speakerphone"
Frost Plug Removing Tool	997,915	Outil pour enlever le tampon de la chemise d'eau
Device For Wrapping Yarn Around Nelson Rollers	997,921	Dispositif pour enrouler la laine autour des rouleaux Nelson
Educational Game	997,929	Jeu éducatif
Rhombo-rotary Engine	997,998	Moteur rhombo-rotatif
Printing Method and System Therefor	998,016	Méthode et système d'impression
Liquid Measuring and Dispensing Apparatus	998,021	Doseur et distributeur de liquide
Method and Circuitry for Controlling the Output Condition of a Synchronous Reluctance Motor	998,094	Méthode et montage pour commander le couple de sortie d'un moteur à réluctance synchrone
Process for Constructing Wide Underpasses Beneath Road Structures, Particularly Railroad Structures, and Prefabricated Abutments or Pillars	998,211	Procédé de construction pour passages inférieurs larges sous une route, notamment sous une voie ferrée, et butées ou piliers préfabriqués
Humane Trap	998,243	Piège sans douleur
Continuous Food Cooking Device	998,286	Convoyeur d'aliments à faire cuire
Adjustable Filter for Cigarettes	998,309	Filtration variable et réglable des fumées de tabac et dispositifs filtrants qui en résultent
Vehicle Supported Collapsible Shelter	998,315	Abri démontable s'appuyant sur un véhicule
Manufacture of Tubes	998,322	Fabrication de tube
Dump Box Body Cover Mechanism	998,409	Mécanisme de couverture de bascule de camion
Toy Karate Device	998,528	Jouet-dispositif de karaté
Rotary Veneer Clipper	998,605	Coupe-placage rotatif
Turning Drum Paper Feed	998,660	Dispositif d'entraînement de papier sur tambour tournant
Combination Folding Tent Camper and Cargo Cover System for Ion Production	998,713	Tente pliante et bâche combinées
Nuclear Reactor Safety Barrier Containing a Pulverulent Absorbent	998,784	Barre de sécurité à absorbant pulvérulent pour réacteur nucléaire
Knock-down Joint Between Frame Members	998,819	Joint démontable entre les éléments d'une ossature
Adjustable Fastening Device for Large Precast Concrete Panels	998,848	Dispositif de fixation réglable de panneaux de béton prémoulé
Milling Cutter for Root Canal Penetration	998,861	Fraise de dentiste
Granular Coated-Molasses Product and Process	998,874	Produit granulaire enduit de mélasse et procédé de confection
Classifying Apparatus	998,963	Dispositif de classification
Aerosol-can Dispensing Cap	998,975	Bouchon vaporisateur pour aérosol
Mining Machines	999,015	Machine de mine
Multiphase Signal Generator	999,056	Générateur de signal polyphase

Graphic Display System	999,067	Système de visualisation graphique
Speech Detector for a Telephone Channel Concentrator	999,072	Détecteur de parole pour concentrateur de voies téléphoniques

#### MANUFACTURING OPPORTUNITIES ABROAD

Major chemical company in Turkey is interested in getting in touch with Canadian firms for establishing agencies, distribution and Know-how agreements on the following items: cationic ion exchange resins, azoic pigments, phthalic pigments (blue and green), sodium hydrosulphite, surface active agents, surfactants for agricultural blends, acrylic emulsions (water and solvent type), P.V.A., E.D.T.A., ethanolamides, fiber processing agents (lubricants antistatics), printing inks (offset, litho, roto), varnishes for printing ink, crown and can sealing compounds, plastic packaging (bags), urea formaldehyde resins (for textile and glues). Interested Canadian companies should contact: Mr. Aldo L. Kaslowski, Organic Holding A.S., Buyukdere Caddesi, Stad Han, No. 85/8, Mecidiyekoy, Istanbul, Turkey.

British company specialized in the manufacture and assembly of high-speed precision machinery is seeking to manufacture under license suitable products having the following characteristics: a minimum unit selling price of £1000, a potential market of £1/2m to £5m sales per year, high precision engineering with some electronic control. Interested Canadian firms should contact: Mr. David Osborne, P.A. Management Consultants Limited, acting on behalf of The Metal Box Company, Hyde Park House, 60a Knightsbridge, S.W.1.

British group of companies experienced in control equipment for industry, aircraft instruments and systems, marine safety equipment and general engineering wishes to expand its product range. The group is interested in manufacturing new products with a high level of technology, electro-mechanical and hydraulic products in control systems, safety, noise measurement and pollution control equipment. Interested Canadian companies should contact: Mr. Christopher Wegerif, Deputy Group Marketing Director, Louis Newmark Limited, 143 G.T. Portland Street, London, W1N 6BP.

#### TECH TRANSFAIR '78

Cette exposition internationale du transfert technologique aura lieu au même endroit que le Royal Netherlands Industries Fair du 8 au 12 mai 1978. TECH TRANSFAIR '78 se déroulera en même temps que la Conférence internationale LES '78 parrainée par LES - Benelux. La conférence soulignera l'importance du transfert technologique en Europe (Est et Ouest), au Proche-Orient et dans les

#### POSSIBILITÉS DE FABRICATION À L'ÉTRANGER

Une société importante de la Turquie est intéressée à entrer en communication avec des entreprises canadiennes dans le but d'établir des agences ainsi que des ententes de distribution et de fabrication concernant les articles suivants: résines cationiques à échange ionique, pigments azoïques, pigments phthalos (bleus et verts), hydrosulphites de sodium, agents tensio-actifs, surfactifs pour mélanges agricoles, émulsions acryliques (types aqueuses et dissolvantes), P.V.A., E.D.T.A., éthanolamides, agents de traitement des fibres (lubrifiants antistatiques), encres d'imprimerie (offset, lithographie et rotographique), vernis pour encres d'imprimerie, scellants, emballages de plastique (sacs) et résines formaldéhyde-urée (pour les textiles et les colles). Les compagnies canadiennes intéressées peuvent communiquer avec M. Aldo L. Kaslowski, Organic Holding A.S., Buyukdere Caddesi, Stad Han, No 85/8, Mecidiyakoy, Istanbul (Turquie).

Une société britannique, spécialisée dans la fabrication et le montage de machines de précision à haute vitesse désire obtenir, sous licence, les droits de fabrication de produits appropriés offrant les caractéristiques suivantes: un prix de vente unitaire minimal de £1000, un marché annuel potentiel de £½m à £5m et une technique de haute précision comportant certaines commandes électroniques. Les sociétés canadiennes intéressées devraient communiquer avec M. David Osborne, P.A. Management Consultants Limited, agissant pour le compte de la Metal Box Company, Hyde Park House, 60a Knightsbridge, S.W.1.

Un groupe de sociétés britanniques, expérimentées dans le matériel de commande d'instruments et de systèmes pour l'industrie et l'aviation, le matériel de sécurité pour la marine et l'ingénierie en général, désire augmenter l'éventail de ses produits. Le groupe est intéressé à fabriquer des nouveaux produits de haute technicité, de l'équipement de commande électro-mécanique et hydraulique de systèmes ainsi que du matériel de sécurité, de mesure du niveau sonore et de contrôle de la pollution. Les sociétés canadiennes intéressées devraient communiquer avec M. Christopher Wegerif, directeur-adjoint de la commercialisation du groupe, Louis Newmark Limited, 143 G.T. Portland Street, London, W1N 6BP.

#### TECH TRANSFAIR '78

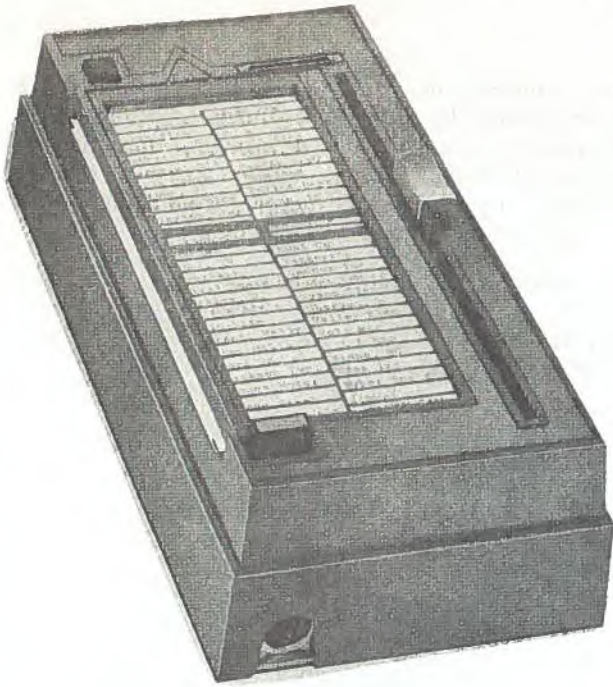
This international exhibition for technology transfer will be held at the Royal Netherlands Industries Fair site from May 8 to 12, 1978. TECH TRANSFAIR '78 will take place concurrently with the LES International Conference '78 sponsored by LES - Benelux. The conference will emphasize the transfer of technology in Europe (East and West) the

near East and relevant areas in Africa. TECH TRANSFAIR '78 welcomes as an exhibitor companies, institutes, governmental and semi-governmental agencies, associations and organizations clearly related to technology exchange. Additional information may be obtained by contacting:

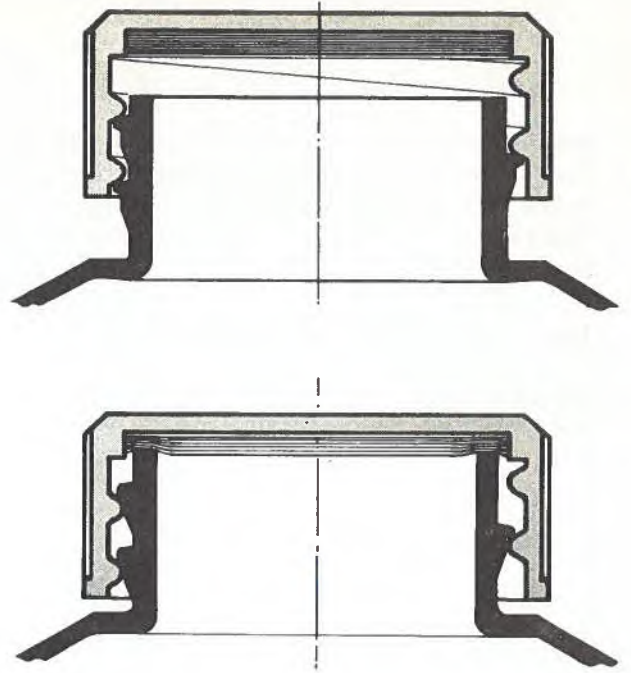
The Royal Netherlands Industries Fair,  
P.O. Box 8500,  
Utrecht, Holland  
Tel: (303) 914914 Telex 47132

régions pertinentes de l'Afrique. TECH TRANSFAIR '78 invite les sociétés, les instituts, les organismes gouvernementaux et semi-gouvernementaux, ainsi que les associations et les organisations qui s'intéressent à l'échange technologique à participer à l'exposition. Pour des renseignements supplémentaires, veuillez communiquer avec:

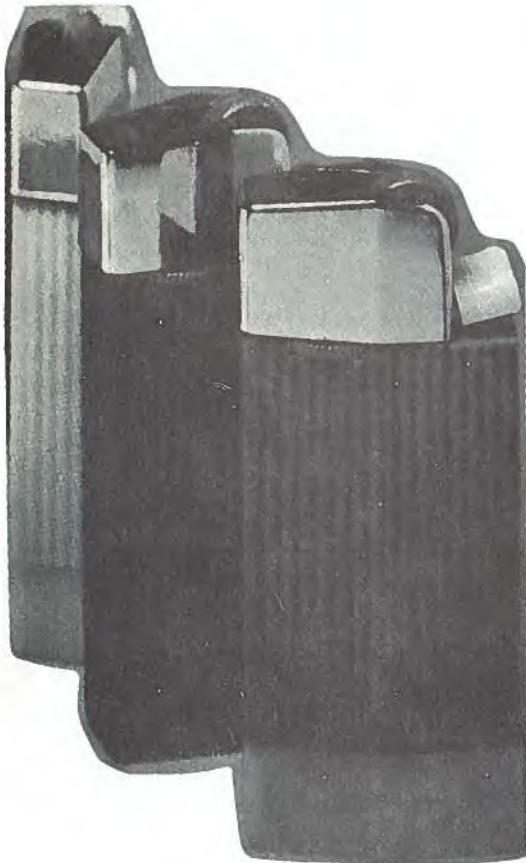
The Royal Netherlands Industries Fair,  
C.P. 8500,  
Utrecht, Pays-Bas  
Tél. (303) 914914 Téléx 47132



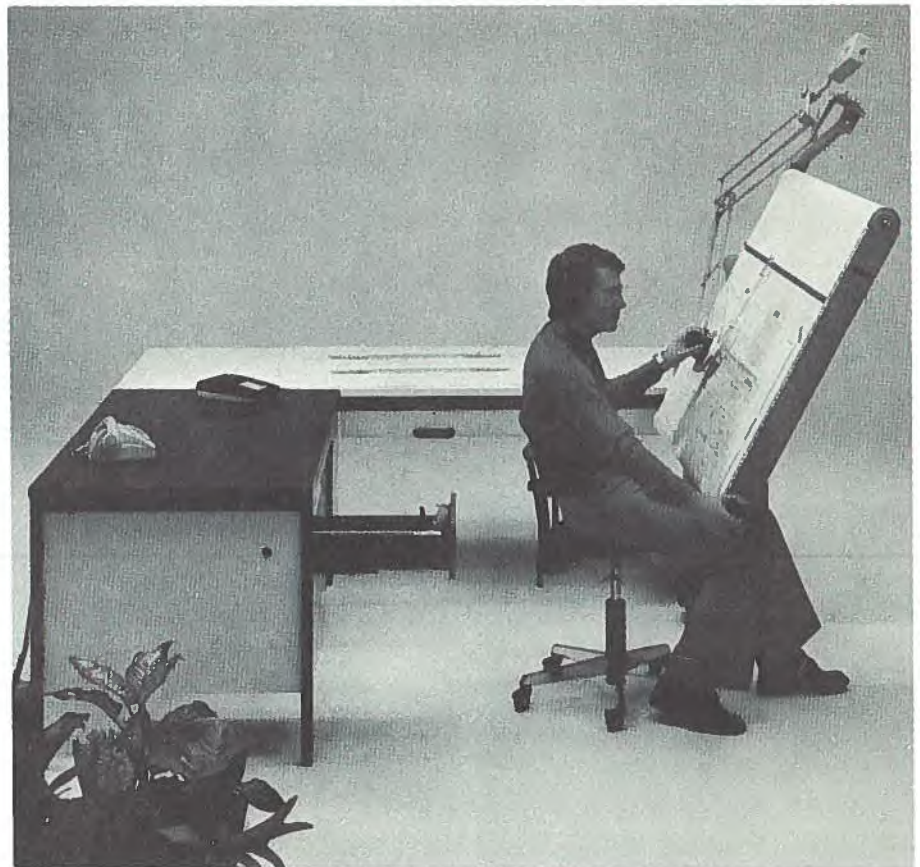
Item 3453 — Automatic Telephone Dialer  
Article 3453 — Appareil d'appel téléphonique automatique



Item 3455 — Screw Thread System  
Article 3455 — Nouveaux filetages



Item 3454 — Lighters  
Article 3454 — Briquets



Item 3445 — Drafting System  
Article 3445 — Système de dessin