

new products bulletin



INDUSTRIAL AND TRADE ENQUIRIES DIVISION

DEPARTMENT OF INDUSTRY, TRADE AND COMMERCE
OTTAWA
CANADA

This bulletin is published monthly as a complimentary service 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:

**Chief, Industrial and Trade Enquiries Division, Department of Industry, Trade and Commerce,
Tower B, Place de Ville, Ottawa 4, Ontario.
Tel: 992-4441, Area Code 613**

BULLETIN 186

SCIENCE AND
TECHNOLOGY CANADA
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Design Transfer System

Item 2418

British company offers under license the Canadian rights to its design transfer system which provides high quality, economical decoration and finish using facsimile reproductions of wood grains, linens and other continuously printable patterns on wood, metal, plastic, hardboard, etc. The process can be used with simple machinery or with semi-automatic or fully automatic equipment. The special paper used by the system will be provided by the licensor. Steps in the process include cleaning the product to be covered, applying adhesive, placing the design transfer paper face down in the adhesive, stripping off the backing paper and coating the surface with appropriate lacquer. Literature available. See illustration.

Epoxy Coating, Bonding Agent

Item 2419

American firm offers under license the Canadian production and marketing rights to its line of water-based, epoxy resin coating and bonding agents. One type of coating is claimed to be equivalent to two or more coats of paint, is flexible and chip proof, has a life expectancy five times greater than competitive coatings, and is ideal for gutters, driveways, patios, etc. Another type can be mixed with cement or plaster for filling, levelling and sealing, and with appropriate aggregates for repair of masonry walls, stairs, etc. This type can be used in combination with coloured ceramic granules to provide a seamless, non-skid surface covering for patios, sun decks, floors etc. It is claimed that the finished surface never needs waxing and is virtually impervious to scratches, dents and stains. A heavy waterproof type is available as an underlay for floors, or for coating water tanks, basements and swimming pools. Literature available.

Ball Valves, Lubricated Plug Valves

Item 2420

French firm offers under license the Canadian manufacturing and marketing rights for its line of ball valves and lubricated plug valves. The range of valves offers a wide choice of materials, types and designs. The balls are made of carbon steel or stainless steel. For special uses, they can be coated with stellite, hastelloy or colmonoy. The plugs are made of cast iron or hardened steel. They are treated with a special coating of molybdenum disulfide which considerably reduces the coefficient of friction and ensures perfect tightness. For special uses, they can be coated with hard chromium, stellite, hastelloy, teflon etc. Literature available. See illustration.

Reversible Window**Item 2421**

American inventor offers the Canadian manufacturing rights and the Canadian and American marketing rights for his reversible window which he claims has advantages over other types of windows currently on the market. Unlike other vertically reversible windows, it can be reversed for cleaning the outer side of the glass from within while not crossing the inner sill. In emergencies, this development provides the full window space as an exit. It incorporates a wide, compressible weatherstripping set between the sash and the outer face of the stationary frame which compresses even more under pressure. As a result, as wind pressure increases, the unit becomes more weathertight. Literature available. See illustration.

Automatic Machining Centre**Item 2422**

British company seeks Canadian licensee to manufacture and market its automatic machining centre. Three axes, longitudinal, traverse, and vertical, are automatically position controlled by punched paper tape input to the control console. Tool change sequences, spindle speed selection, feed selection to all three axes, and coolant supply are all controlled from the same input media. Automatic control of one or two rotary tables can be provided if required. Manual switching can also be provided. Literature available. See illustration.

Sprayed Asbestos Insulation**Item 2423**

British firm is seeking licensing arrangements with Canadian companies for its sprayed asbestos insulation process. This process is used to form insulation coatings on equipment, buildings, storage tanks, etc. for the purpose of fire protection, thermal insulation, condensation control and acoustic correction to those surfaces so treated. The material is comprised of asbestos and hydraulic binder which is applied by a special machine provided by the licensor. Literature available. See illustration.

Rail-Highway Vehicle**Item 2424**

American company offers the exclusive Canadian manufacturing and marketing rights, and will negotiate certain export rights, for its rail or highway vehicle designed primarily as a switching unit. It weighs 7-1/2 tons and is claimed to have a tractive force comparable to a 25 to 30 ton diesel locomotive. Rated at 19,650 pounds maximum tractive force with a starting drawbar pull on level track of 1,533 tons, it has a road or rail speed of up to 60 m.p.h. The unit can rotate 360° and has an outwardly projected radial drawbar for proportionate weight transfer. Because of its relatively light weight, it is extremely versatile and can be used as a snowplow, crane, etc. Literature available. See illustration.

Hydrofoil Pleasure Craft**Item 2425**

Scottish development agency offers the Canadian production rights and the North and South American marketing rights to its design of hydrofoil pleasure craft. The product is a 22 foot boat with a cruising speed of 30 knots and maximum speed of 40 knots. It stands 2 to 2-1/2 ft. clear of the mean water line and is claimed to be operable in large waves. The struts and foils retract in order to allow shallow water operation. The Canadian licensee will be provided with manufacturing drawings, design and other technological assistance. This craft has not yet been commercially produced. Literature available. See illustration.

Vehicle Control System**Item 2426**

British firm seeks a Canadian licensee to manufacture and market its system for controlling vehicle movements. This electronic device is designed to control any function in which information, transferred into digital form and first displayed, needs to be revised or up-dated according to a desired pattern as a result of the passage of time. Particularly suitable for the control, at base, of radio-cabs, police cars, ambulances and delivery trucks, the system could be extended to process control in industry, hotel bookings, etc. Literature available. See illustration.

Orthopedic Posture Seat**Item 2427**

Canadian designer of a moulded, portable, lightweight posture seat offers its Canadian and American manufacturing and marketing rights to a Canadian company. This patented seat provides support to the lower back and is therefore claimed to be ideal for truck and bus drivers, airplane pilots and others that travel long distances, and for office workers who spend a great deal of time sitting at a desk. The seat may be constructed of plywood or plastic. Literature available. See illustration.

Plastic Bucket for Packaging of Two-Component Products**Item 2428**

Netherlands firm offers under license the Canadian manufacturing and marketing rights for a new plastic bucket for packaging of two-component products. This item consists of an injection-moulded bucket of conventional size and design, closed by means of a second, smaller bucket, which is, in turn, closed by a flat lid. The main advantage of this bucket is that it allows the packaging of two components within the same package without the risk of mixing them. It also ensures the correct mixing ratios prescribed by the materials manufacturers. Literature available. See illustration.

Swim Fins**Item 2429**

American inventor of a universal swim fin for use on both the hands and the feet offers it for manufacture in Canada. Made of polyethylene, either by injection moulding or by stamping from sheet, the fin floats. It is designed so that it will fit all sizes of hands and feet. In addition to aiding in swimming, the fins can be used as beach sandals and for paddling rafts, surf boards, etc. It is claimed that the Canadian licensee will receive an immediate order from the patent holder for approximately \$5,000 worth of fins for the U.S. market. Literature available. See illustration.

Earth Anchor**Item 2430**

American developer of a unique anchor for use in all types of soil conditions offers it for manufacture under license in Canada. The anchor barrel is comprised of steel tubing which may be driven into any type of soil such as shale, concrete, asphalt and rock. Steel tubes or rods (tentacles) are contained in the barrel and are pressure projected into the soil in a predetermined radial pattern. The number and size of the tentacles are limited only by the size of the barrel. When coming in contact with solid objects, the tentacles deflect around the object and then continue on their original path. Twin-stage tentacle projections at dual levels are employed in extremely rocky areas. Literature available. See illustration.

Classroom Teaching Device**Item 2431**

American corporation seeks a Canadian licensee to manufacture and market its portable, mechanical, manually-operable apparatus which scans data punched in cards, checks correctness of answers to single or multiple choice questions, and summarizes the results. The system's developers claim that it speeds the learning process by providing an immediate response for the student and by supplying for the teacher a continuous progress analysis of each individual student as well as the class as a whole. Literature available. See illustration.

Electric Stove with Metal Heating Plate**Item 2432**

Canadian inventor wishes to license the Canadian production and marketing rights for his electric stove with a metal heating plate. The main purpose of the invention is to provide an electric stove with a plate covering and protecting the electrical elements. Another purpose is to provide a heating plate supported by refractory plates arranged so as to allow the circulation of air between the refractory plates and around the electrical resistances, which prevents overheating of the elements and also allows recovery, through heat exchange, of the heat stored in the refractory plates. Continuing air circulation also keeps the heating plate hot long after power has been shut off. Literature available.

ADDRESS ENQUIRIES CONCERNING THE FOLLOWING CASES TO:

Canadian Patents and Development Limited,
275 Slater Street,
Ottawa 4, Ontario.

Process for Drying wood by combining Dielectric heating with conventional kiln drying**Case 4650**

In this drying process radio frequency heating is combined with kiln drying and a systematic relationship is maintained between the dry bulb temperature of the circulating kiln air, the wet bulb temperature of this air and the surface temperature of the wood. This relationship is based on an appropriate conventional kiln drying schedule for the wood being dried. An infrared radiation thermometer is used to measure the surface temperature of the wood. The process dries wood, without degrade, in about a quarter of the time required for kiln drying.

Nonprotein Nitrogen Source for Ruminants**Case 4431**

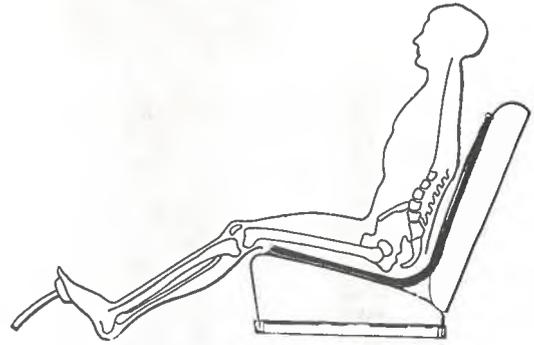
A large proportion of this dietary supplement is digestible. The nitrogen content is over 20%. Control tests with steers and lambs have uncovered no toxic effects and indicate a dietary advantage as compared to other accepted routines. A relatively simple manufacturing process is described.

Improved Reluctance Motor**Case 4290**

Improved rotor construction, which allows a core segment to span two stator poles, results in a higher power factor, lower circulating current loss, greater synchronous and asynchronous torque, quieter starting, and lower cost.



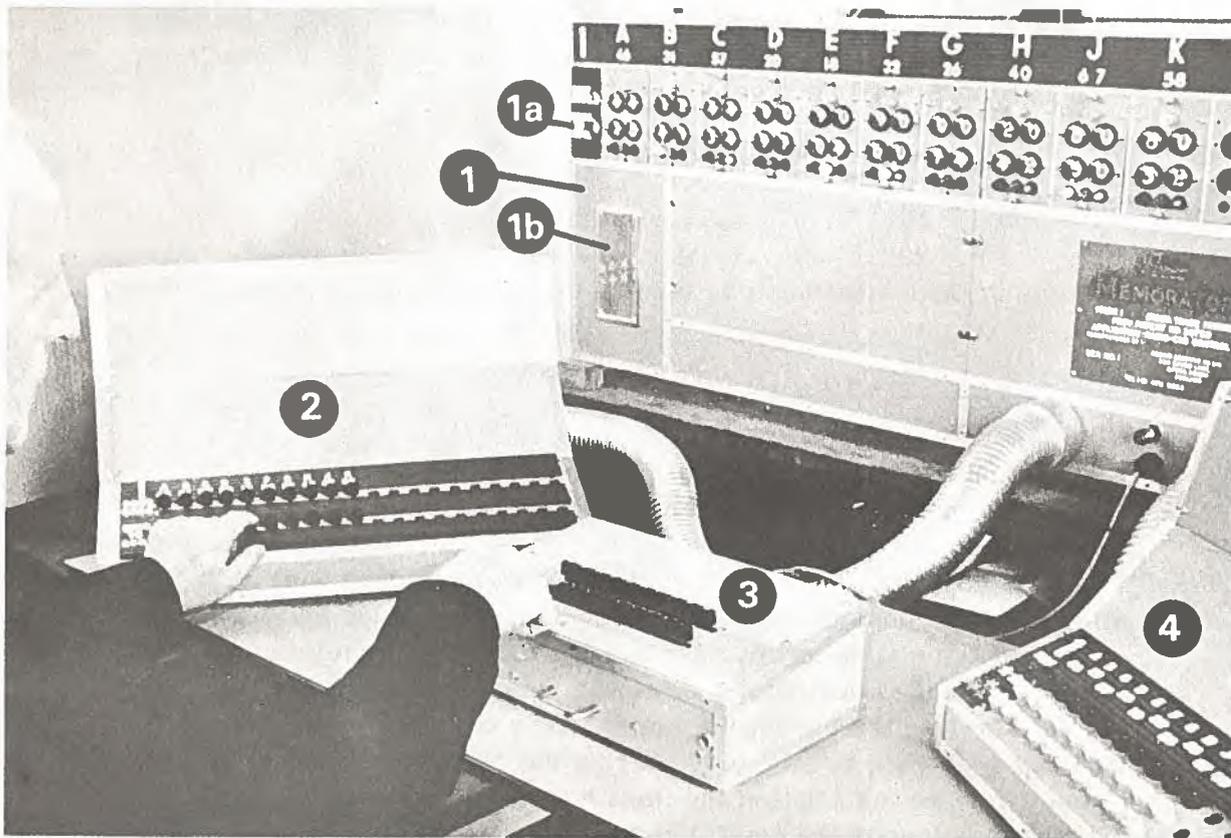
Item 2428 — Plastic Bucket for Packaging of Two-Component Products
 Article 2428 — Seau en plastique pouvant contenir deux produits différents



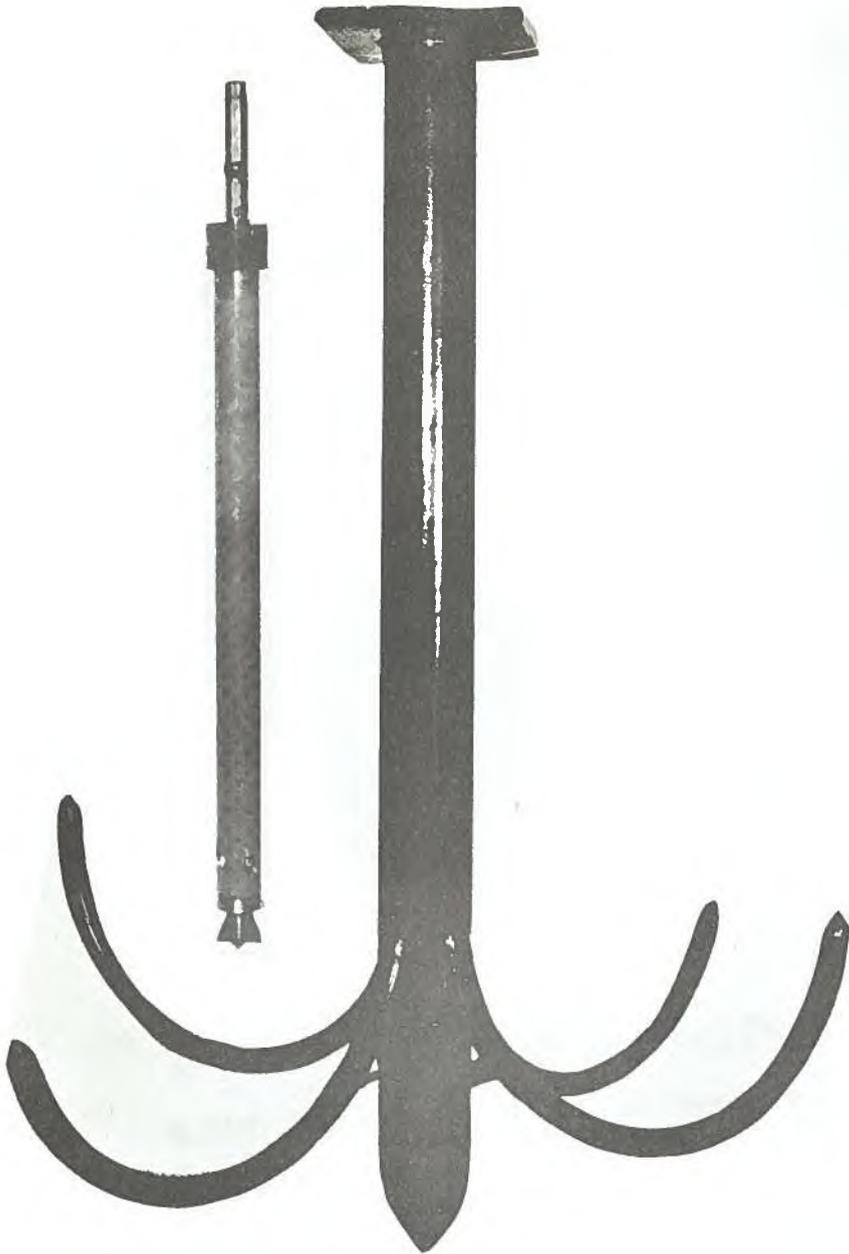
Item 2427 — Orthopedic Posture Seat
 Article 2427 — Siège orthopédique



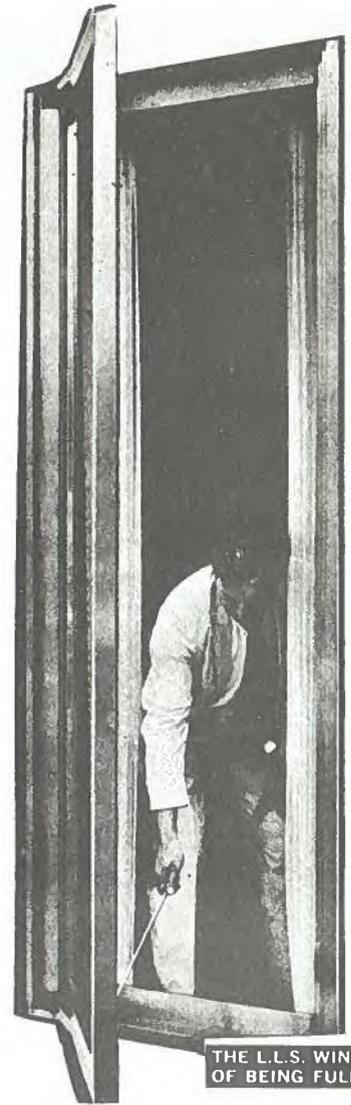
Item 2429 — Swim Fins
 Article 2429 — Palmes de natation



Item 2426 — Vehicle Control System
 Article 2426 — Système de contrôle de véhicules

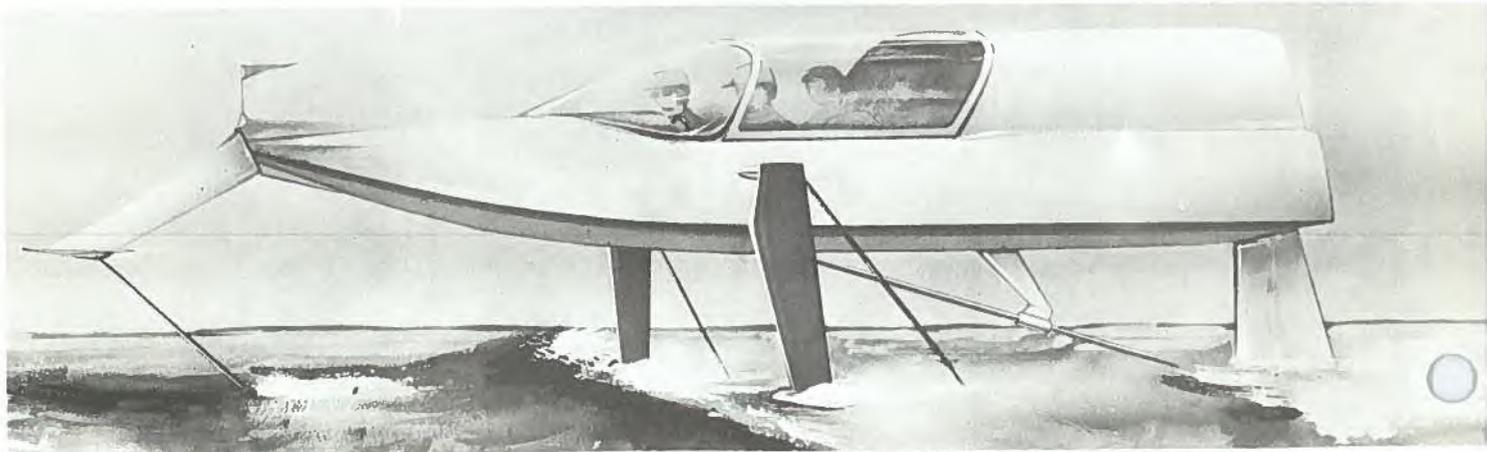


Item 2430 — Earth Anchor
Article 2430 — Ancre de terre



THE L.L.S. WINDOW IN PROCESS
OF BEING FULLY REVERSED.

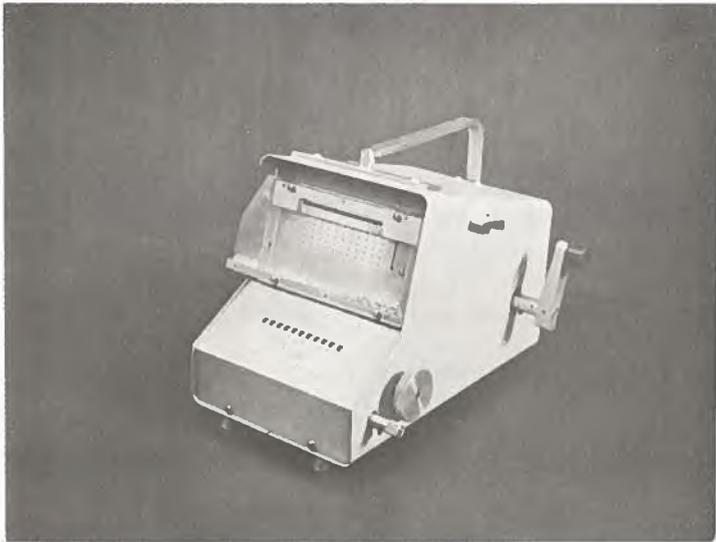
Item 2421 — Reversible Window
Article 2421 — Fenêtre pivotante



Item 2425 — Hydrofoil Pleasure Craft
Article 2425 — Hydroptère de plaisance



Item 2424 — Rail-Highway Vehicle
Article 2424 — Vehicule pour rails et routes



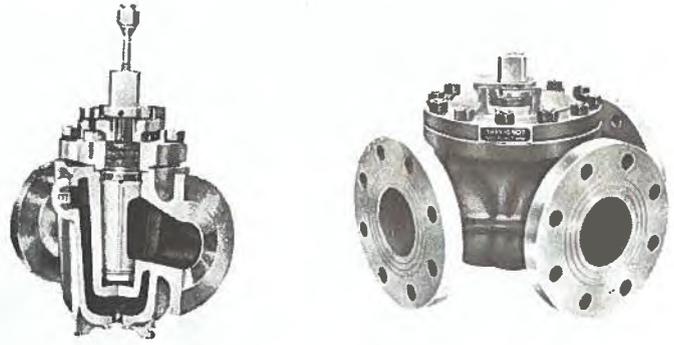
Item 2431 — Classroom Teaching Device
Article 2431 — Appareil à l'usage de l'enseignant



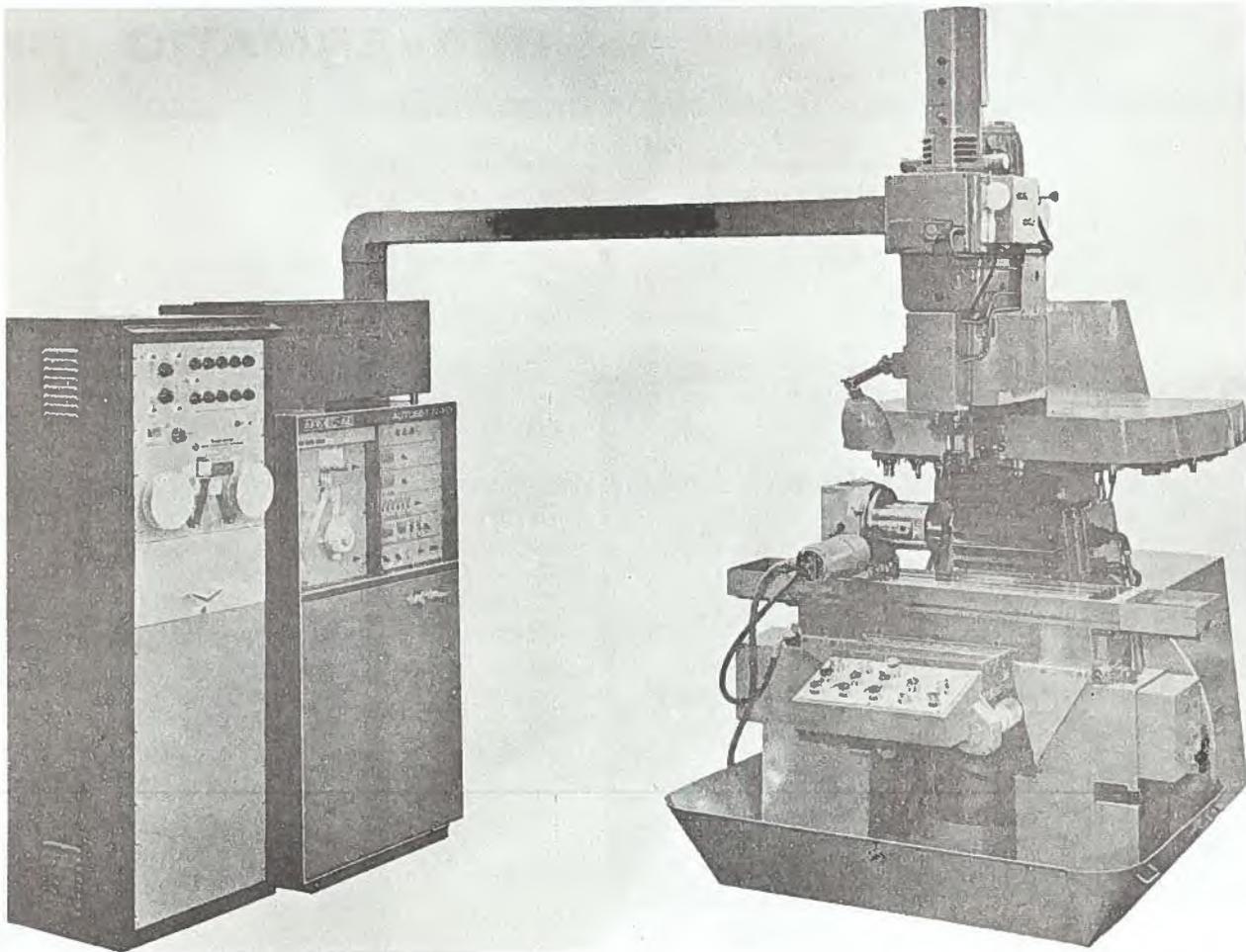
Item 2418 — Design Transfer System
Article 2418 — Procédé de reproduction de motif



Item 2423 — Sprayed Asbestos Insulation
Article 2423 — Isolation par vaporisation d'amiante



Item 2420 — Ball Valves, Lubricated Plug Valves
Article 2420 — Robinets à tournant sphérique et à tournant lubrifié



Item 2422 — Automatic Machining Centre
Article 2422 — Centre d'usinage automatique