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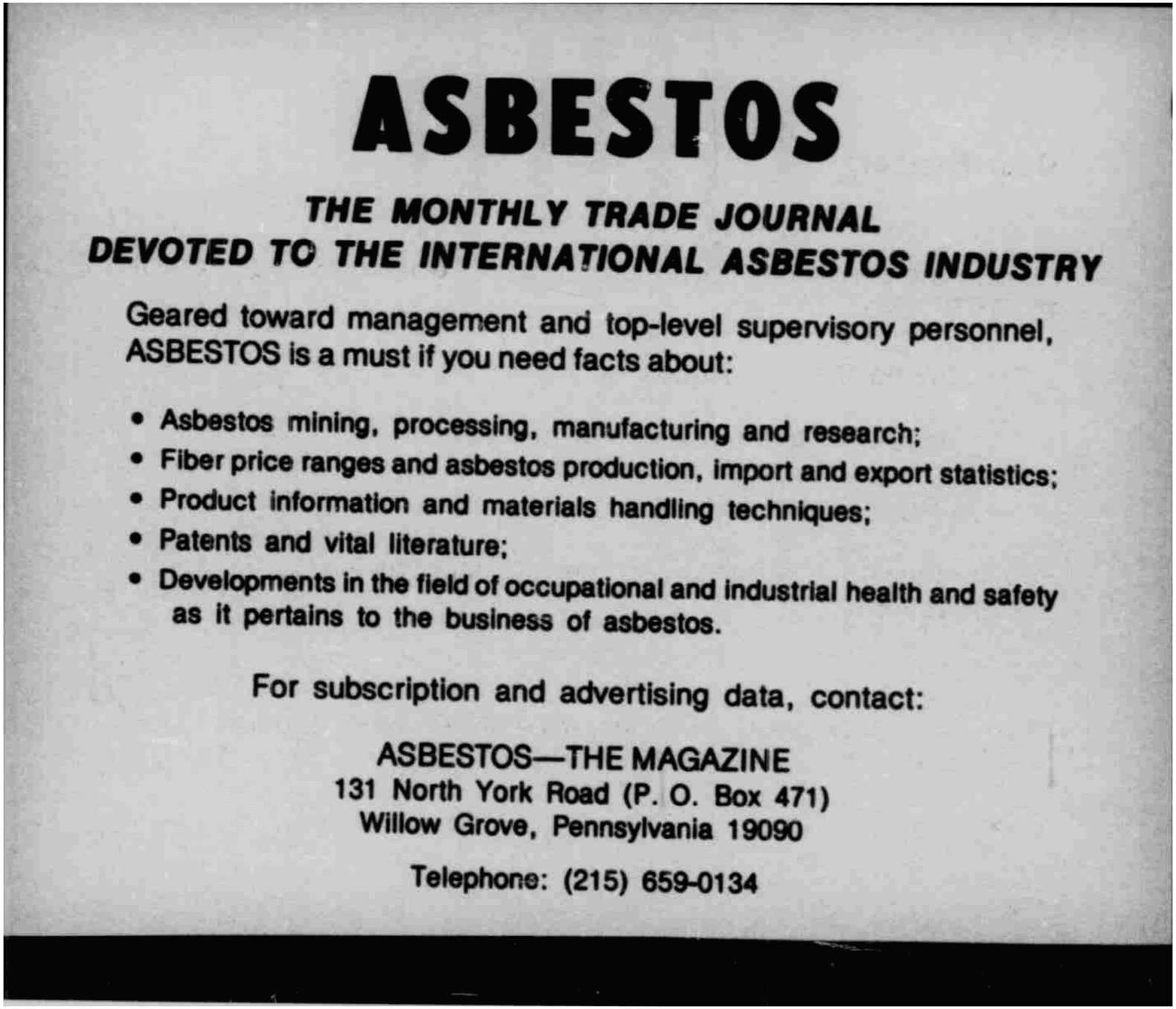
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# ASBESTOS

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# DEVELOPMENT OF C-E BAUER EQUIPMENT FOR PROCESSING ASBESTOS

**By: T. G. Phillips**

Mr. T. G. Phillips, at the time of writing this article, was Vice President-Industrial Equipment Sales, C-E Bauer, a division of the Process Equipment Group of Combustion Engineering, Inc., Springfield, Ohio 45501 and Brantford, Ontario. Since then, he has been appointed Managing Director, European Operations, for the Process Equipment Group of Combustion Engineering, Inc., Paris, France.

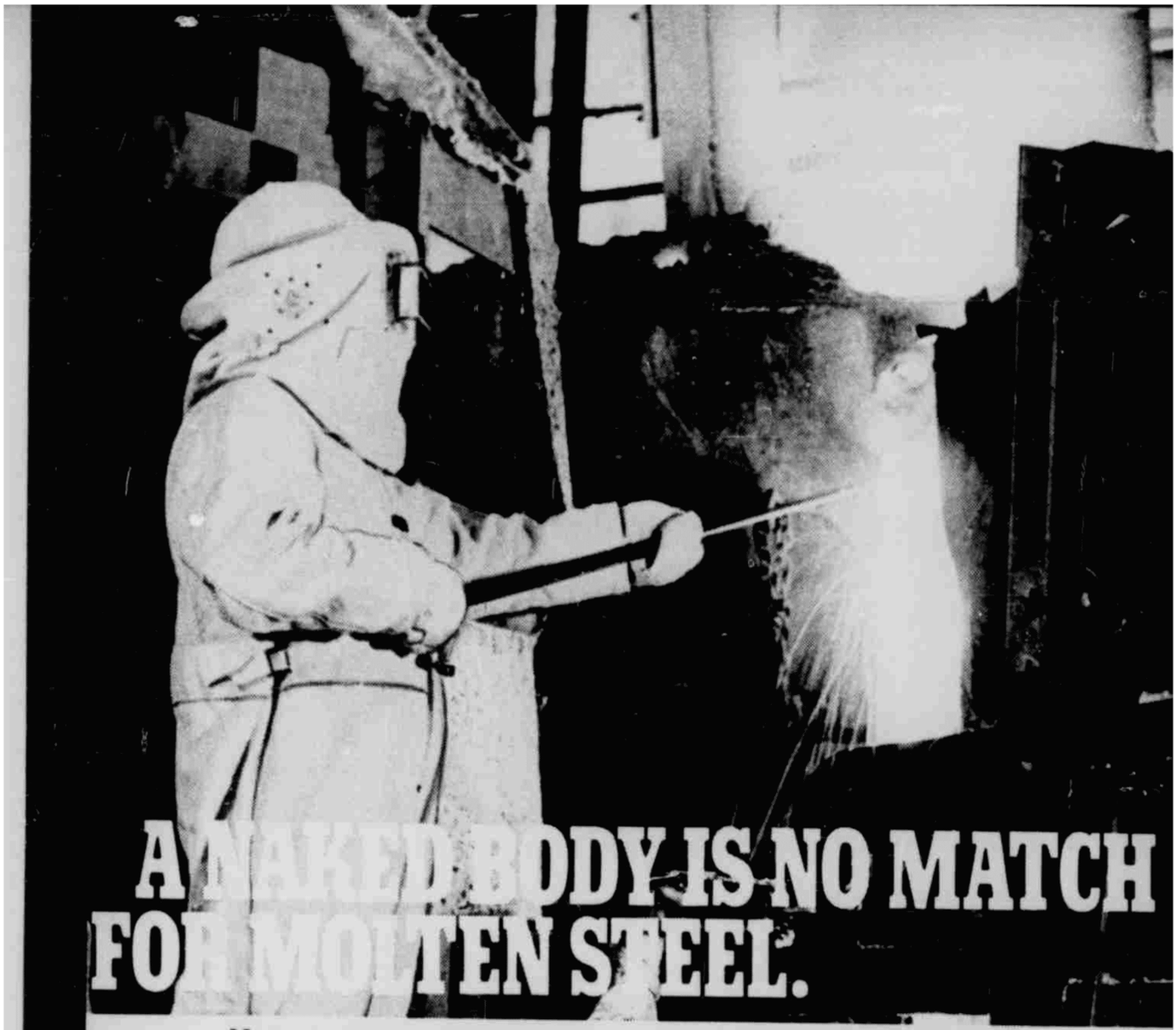
Over the last 25 years, C-E Bauer, a division of the Process Equipment Group of Combustion Engineering, Inc., has been involved in developing equipment for processing asbestos ore and fibers. The use of this equipment to handle the shorter grades of fiber in particular has enabled virtually every North American asbestos processor to upgrade fibers which were previously discarded or which generated little income for each ton delivered to the marketplace.

It was in the 1950's that demand for clean, shorter grades of fiber to be used as a filler in products such as vinyl tile, asbestos cement, plastics, paper, etc., rose to unprecedented levels. For these applications asbestos fibers with their unique properties are required to be clean or grit-free, of good color and usually with a high degree of openness. The various pieces of Bauer equipment which have been developed or modified for asbestos fiber or tailing processing include: double-disc attrition mills, specific gravity separators, Hurricane® pulverizer-classifiers, Centri-Sonic ™ classifiers and Bauer-McNett fiber classifiers. Other Bauer equipment is used to process fibers at the end user's plant but will not be discussed in this report.

In the early 1950's it became evident to the Quebec asbestos millers that better processing was required in order to reduce losses of fiber to ever-growing tailings piles. With a demonstration laboratory equipped with commercial-sized equipment for other processing industries, C-E Bauer became a test ground for evaluating the application of numerous pieces of Bauer machinery in the Asbestos Industry over the next 20 years. The first piece of Bauer equipment to be accepted as part of the Quebec processor's system was the Bauer double-disc attrition mill, initially known as the No. 165-36" Bauer grinder, but more recently known as the Model 445-36" double-disc mill. The ability of this machine to fiberize and release short fibers from




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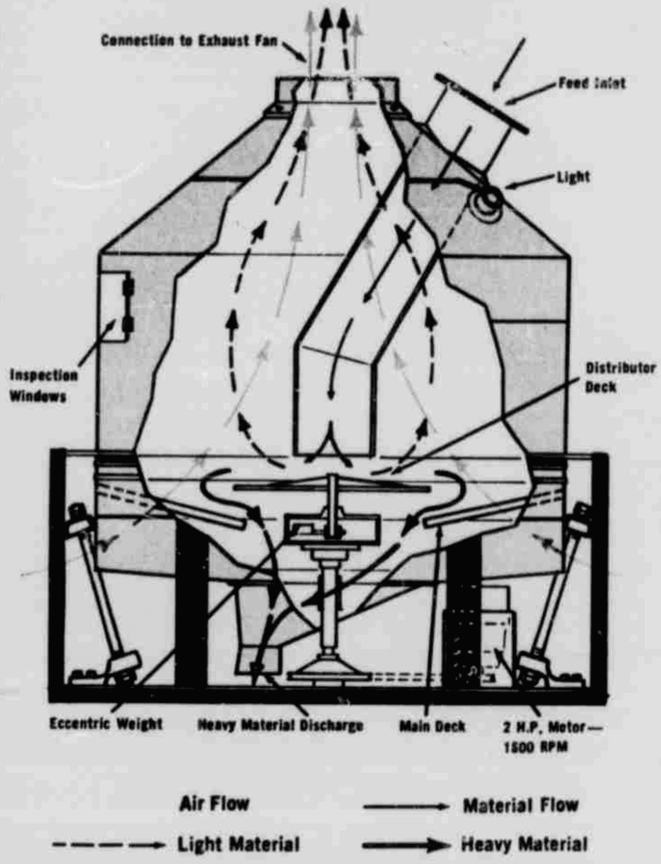
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tailings soon became evident. The two counter-rotating discs, each powered by a 75 hp motor, became standard for handling, in particular, Group 7 fibers in the 1950's. Input capacities of this machine vary from one to five tons per hour, depending upon the amount of fiberizing or fiber release being attempted.

Later in the 1950's the Bauer specific gravity separator was tested to see if it could separate the released short asbestos fibers from rock particles, dust, blasting bits, rubber pieces, and other contaminants. This machine separates dry particles on the basis of differences in specific gravity. Two sizes of the separator ultimately became standards within the industry for cleaning almost any grade of fiber, the Bauer Model 208-1BX separator which has a 42" diameter main deck and the Model 308-1BX separator which has a 72" diameter main deck. The smaller machine can handle roughly one ton per hour input while the larger Model 308 unit is capable of handling up to five tons per hour. The separator itself became widely used in the cleaning of longer grades of fiber, Group 3 fibers being handled successfully in terms of removing fiber bundles and other gritty materials from the fiber. Hundreds of these machines are being used by all the major asbestos processors in North America.

Specific Gravity Separator No. 308 as used in Processing Asbestos




In the early 1960's a new product called the Hurricane® pulverizer-classifier was extensively tested to determine if the performance of the 445 double-disc attrition mill could be improved. It had been determined that high-speed milling had

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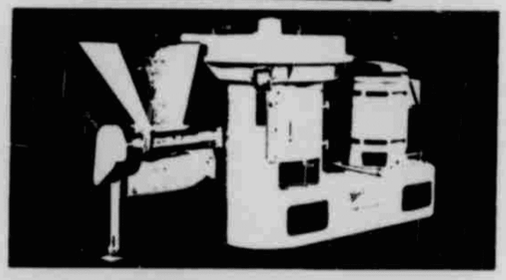




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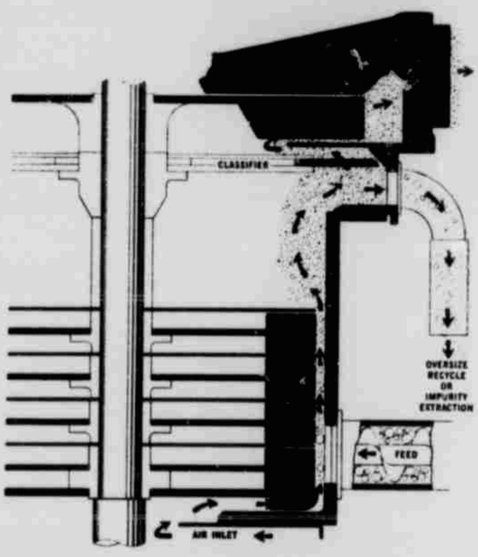
positive effects in improving Group 7 production and recovery from tailings. The Hurricane pulverizer-classifier was a high-speed air attrition mill (2460 rpm), able to reject magnetite and other rock particles from the shorter grades of fiber due to a unique extraction feature. Extremely open grades of fiber (29,000 $CM^2/gm$) could be obtained after processing through a Bauer Hurricane. Some plants' tailing material could be run through this equipment, producing an even better product than could be obtained from the double-disc attrition mill. C-E Bauer, in co-operation with a number of users, has steadily improved the wearing parts of the Hurricane to the point where the machine can now operate on a 24-hour-per-day basis. There are close to one-hundred of these machines in operation in asbestos mills around the world. Although some of these are processing longer Group 5 grades, most of the machines are handling Group 7, Group 8 (floats) and tailing grades. The basic use for these fibers is as fillers in numerous products.

C-E Bauer Hurricane® Pulverizer-Classifier



In some operations the Hurricane unit is the prime beneficiating device as it can process primary crushed ore and produce a Group 7 fiber in one step. This is accomplished by utilizing the integral classifier to reject non-fibrous materials.

Material Flow in Model 730 Hurricane®



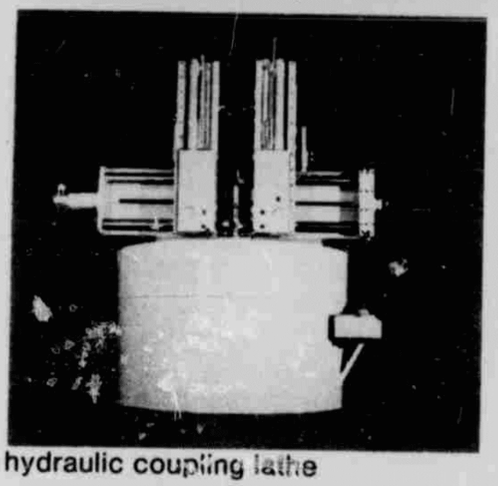

The capacity of the Model 720 Hurricane ranges from 1 to 3 tons of feed per hour, the standard machine being equipped with a 125 hp motor. In some cases 150 hp motors have been installed on the 730 model to improve throughput.

Through the years attempts have been made to increase the capacity of the Hurricane but only in recent months has the development program resulted in an extended classifier

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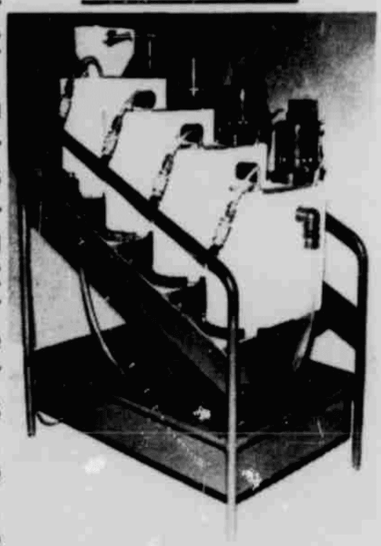
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housing giving a 20% capacity increase. There was no loss of quality in the products tested. It is expected that simply changing a few parts inside existing machines will enable asbestos processors to show improved production rates as well.

Bauer-McNett Fiber Classifier



In addition to the processing equipment already described, C-E Bauer manufactures the Bauer-McNett fiber classifier, a laboratory device for wet evaluation of asbestos fiber samples. There are two basic standards which asbestos processors use for determining the grade or quality of asbestos fiber. The Quebec Asbestos testing machine is the standard for dry screening evaluation while the Bauer-McNett classifier serves the same purpose for wet classification of fiber grades. The early Model 203-A Bauer-McNett fiber classifier was developed in the 1930's for evaluating pulp and paper fibers. This machine was used through the 1950's by the Asbestos Industry as well, and standards were developed by the Quebec Asbestos Mining Association for use of this apparatus. In the early 1960's an updated version of the machine was developed to make it more easily and safely operated by laboratory personnel. Improved materials were adopted for several component parts. The Model 203-C classifier is now used by all the asbestos producers and by most large fiber users for quality control.

The most recent addition to the C-E Bauer family of asbestos processing equipment is the Centri-Sonic classifier. This machine became of interest to the asbestos processing industry in 1966 when a major processor had difficulty in removing small pieces of rubber from his Group 7 open-fiber grades. Again a pilot machine installed at the C-E Bauer Laboratory was used to determine if this piece of equipment could separate what heretofore no other mechanical equipment had been capable of doing. The test was a success and both a Model 751 and a Model 755 Centri-Sonic classifier were installed in mills in the Quebec area. Subsequent testing on other fiber grades showed great promise, the Centri-Sonic classifier being capable of handling difficult-to-separate fiber bundles. It was found that the Centri-Sonic classifier did not overwork the already open fibers, and actually classified or separated the unopened fibers that could be handled more effectively in another part of the process. In another in-



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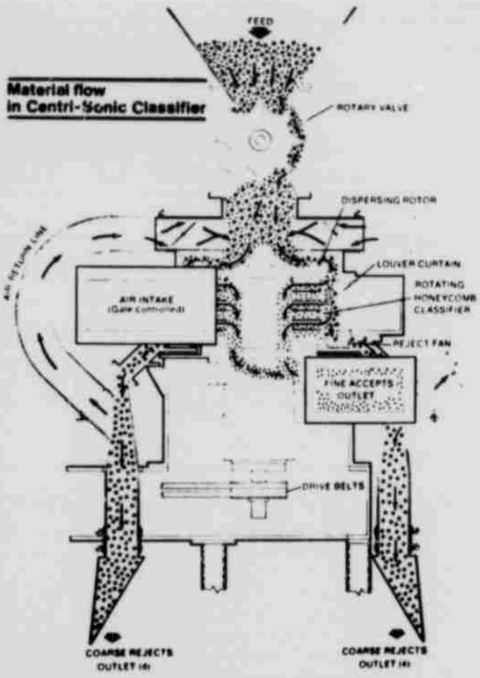




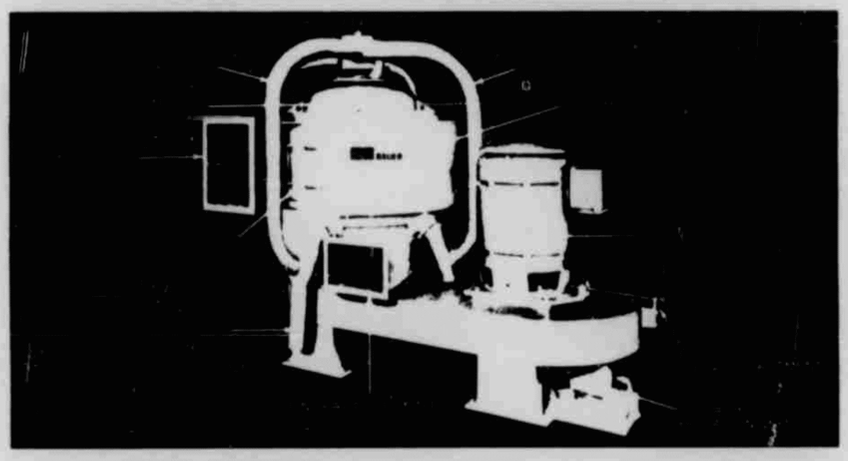
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stallation the Centri-Sonic has been used to recover a small portion of fiber from strictly tailing material. At yet another location the machine is able to separate and classify fiber grades that ultimately can be blended with other groups to produce new products required by ever-changing demand. The Model 755 Centri-Sonic classifier has an input capacity ranging from 4 to 8 tons per hour, depending on its application in the process of each mill. The classifier itself is powered by a 40 hp motor while the booster fan uses from 75 to 125 hp depending upon the amount of air required in the system for each process. The Centri-Sonic classifier is steadily finding its way into the flow sheet of the major processors of asbestos in Canada.

Material flow in Centri-Sonic Classifier



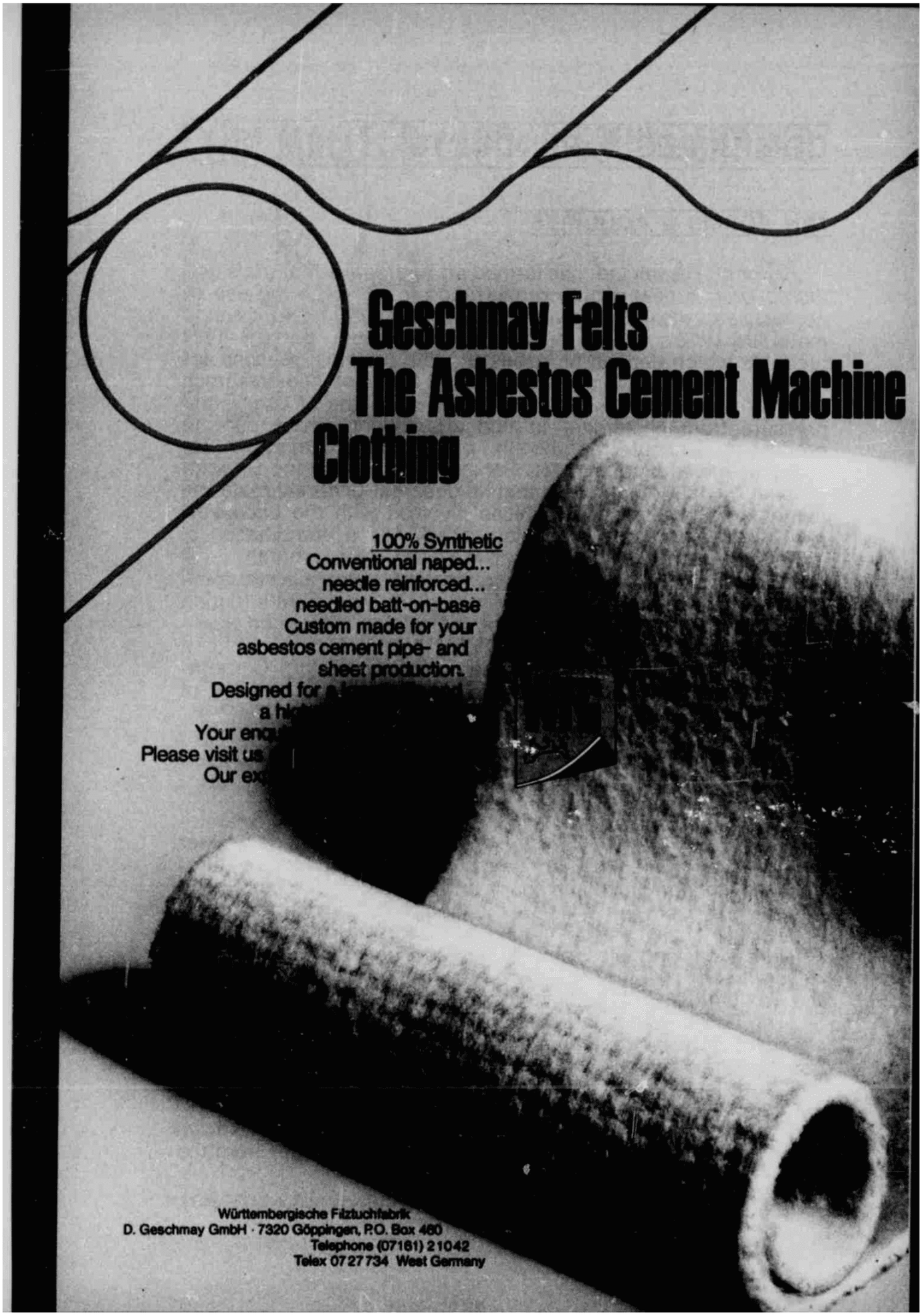

C-E Bauer Centri-Sonic™ Classifier



In conclusion, C-E Bauer has, over the years, developed a line of equipment which is widely used and contributes greatly to the productivity and profitability of many asbestos milling operations. By maintaining close liaison with the research and development departments of the major asbestos producers, the company is continually seeking ways to improve processing operations in the interest of economy and improved product quality.




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# COMPANIES & PRODUCTS

## T&N FORMS & ACQUIRES

Turner & Newall Ltd. has formed an *Alternative Materials and Fibres Unit*, a new central organization to research the use of non-asbestos fibers in products and processes and to develop materials which could replace or supplement current T&N products which depend on asbestos. The principal reasons for the move are the fact that known world asbestos fiber reserves have a life of just 25-30 years at the present rate of usage and pressure from customers to find alternatives which can be processed without the health precautions demanded for asbestos-based products. Mr. Ronald Wells, Managing Director of the new Unit, commented that he does not underestimate the immense technological difficulties involved with the endeavor. He said that asbestos is a unique fiber, with a combination of attributes which no single alternative is likely ever to match.

Turner & Newall reached an agreement with *Maremont Corporation* to form a joint company to acquire Maremont's friction material and brake parts operations in Paulding, Ohio, and Nashville, Tennessee. T&N is to hold 80% of the new firm, for which it is to pay about $8-million. The new company, Nuturn Corporation, will be managed as part of T&N's worldwide network of Ferodo companies.

## CAPE TILE, CLADDING & BOARD

*Cape Universal Claddings Ltd.* is manufacturing maintenance-free *asbestos-cement decking tiles*, made by a new injection-molding technique which ensures precisely-formed tiles of absolutely uniform size and shape and monolithic structure. The natural grey or white tiles are noncombustible, unaffected by alkalis and sunlight and immune to insect and vermin attack. Universal decking tiles provide an economical, hardwearing, decorative finish to felt or asphalt-covered flat roofs and protect the weathering surface from foot traffic and solar heat.

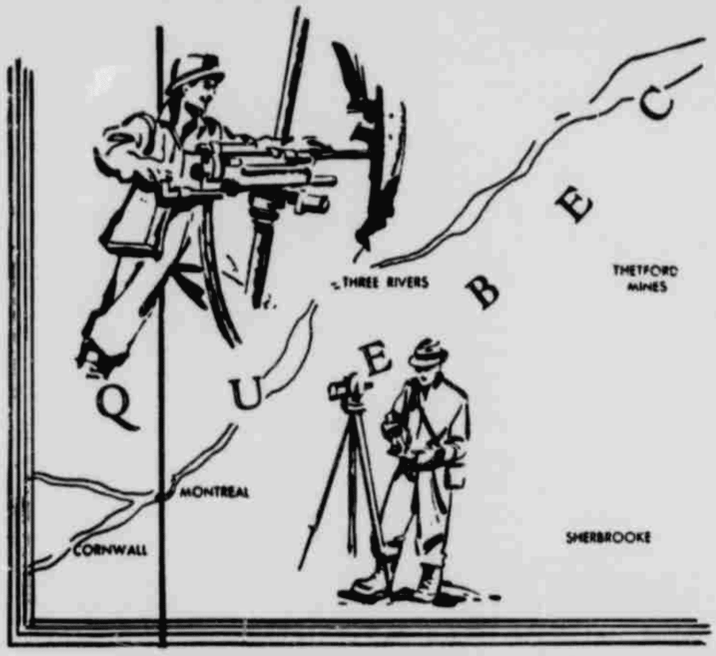
The Education Department of the City of Liverpool specified *Standard Six asbestos-cement cladding with GP lining sheets* for use in a new school for handicapped children. The sandwich system was supplied by CUCL. Noise levels within the building were reduced by perforating the lining sheets.

Cape Industries Ltd. reports that the latest export news from *Cape Boards and Panels Ltd.* is the receipt of an order from the



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Persian Gulf for 200,000 square meters of *Asbestolux insulating board* to provide fire-resisting partitions for two hospitals in Kuwait.

## A/C SHEETS FROM PROCESA

Following completion of a new plant in Guatemala City, *Productos de Asbesto Cemento, S.A.*, has entered the asbestos-cement sheet manufacturing business. Production of corrugated sheets has begun but eventually the plant will be producing 80 metric tons of material per 24-hour day of standard corrugated profile, flat and Canaleta profile sheets. Since freight costs are prohibitive to other countries in Central America, PROCESA's markets will be just Guatemala and El Salvador. Plant machinery and technical know-how were supplied by Interasbest Zementanlagen, St. Johann/Tirol, Austria.

## NEW CURING PRESS FOR THERMOID

*The Thermoid Division of H. K. Porter Company, Inc.*, has installed one of the largest curing presses ever used in the manufacture of industrial friction products. The $65,000, 71,000-pound, in-line curing press, located at the Amco Works, Huntington, Indiana, features 52" x 52" platens which can handle two parts at a time, up to 48" in diameter, and has a working pressure of 1,018 tons.

## LARGE J-M PIPE CONTRACT

*Johns-Manville Corporation, International Division,* completed an $8.6-million contract with Hyundai Construction Co. Ltd., Seoul, Korea. The largest single pipe sale in J-M's history took three years to complete and included Transite water, irrigation and sewer pipes; Temp-Tite and Copper Core preinsulated pipe for chilled water systems; and Flame-Safe glass fiber pipe insulation.

## RESIDENTIAL BUILDING IN SAUDI ARABIA

The Ministry of Public Works and Housing, Saudi Arabia, has signed a contract with the Dutch firm, OGEM, for construction of 32 eighteen-story *apartment buildings* in Damman. An additional 12,000 *residential housing units* will be contracted for shortly for the towns of Al-Khobar, Khafji, Qatif, Hasa, and others. It was




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reported by the *Middle East Trade Letter* that most of the components in these projects will be imported and that special piers are being built at ports on the Red Sea and Gulf coasts to handle 4-million tons of materials.

## INSULATION FROM HUNGARY

*UNIDO Newsletter* has listed the following as available from a Hungarian concern: license and know-how for an *asbestos insulating technique* which does not need pre-treatment of base surface or plating. The product is resistant to fire, sound, corrosion and heat loss.

## BATTELLE PROPOSES STUDY

*Battelle Columbus Laboratories* has proposed a multi-client study to describe the technical economics of short-term energy alternatives and their associated equipment markets. Expected to begin in the early fall of 1977, the 15-month project is designed to provide data useful to any company concerned with keeping plants operating during the next ten years as well as to firms selling combustion and associated equipment.

**A VACANCY EXISTS FOR A**

**PLANT MANAGER**

In a new fully-automated, asbestos-cement sheeting plant in Guatemala City, Central America. Applicants should have recent experience in modern asbestos-cement machinery and be prepared to train inexperienced personnel to operate the plant efficiently in a short time.

The position is a challenging one and should be attractive to a person who wishes to work overseas. An excellent salary is offered and period of contract can be negotiated.

Further particulars from: PROCESA, Productos de Asbesto Cemento, S.A., Avenida Petapa No. 42-95 Zona 12, Guatemala, C.A.




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# MARKET CONDITIONS

## GENERAL BUSINESS

Following a drop of 0.2% in May, the Commerce Department's Index of Leading Economic Indicators declined another 0.6% in June. While it is generally agreed that it requires three successive monthly declines to signal a downturn in the economy, the size of the June drop in this Index was a source of some concern. It was also reported that productivity of hourly workers fell appreciably in the second quarter compared to a healthy first quarter gain. Coupled with continuing trade deficits, rising consumer prices and the absence of a strong increase in capital spending, these statistics led many observers to predict a substantial reduction in the growth rate of the economy during the second half of 1977. Certainly, no one will be surprised if growth slows from the 7.5% and 6.4% rates of the first and second quarters.

U.S. Steel announced price increases on several product lines, to take effect in September. This move evoked sharp criticism from the Administration which felt the increase was unreasonable and unjustified. In view of the soft market for steel of the types involved, it is questionable whether the increases will "stick." Under more normal conditions, an increase would probably not have been made in such a weak market. However, in the prevailing inflationary climate, price increases to recover rising costs regardless of market strength have become an accepted way of life for many companies and it is doubtful that "jawboning" can or should prevent such increases. As an indication of the problems facing steel companies in particular, Bethlehem reported sharply reduced earnings for the second quarter, cut its dividend in half and expressed some doubts as to whether it would reopen its works at Johnstown, Pennsylvania, severely damaged by a recent flood. The importance of this decision can be judged by the fact that these mills normally employ approximately 11,000 workers.

It now appears that much of the President's energy program has met with the approval of cognizant House committees and the overall plan submitted for consideration by the House and Senate will conform rather closely to Mr. Carter's original proposals. While many serious students of energy matters have grave doubts as to the wisdom of many parts of the program, it may be, at this point, that any politically-acceptable plan is better than none. It is rather surprising that the House committees have come up with so few ideas of their own and have, rather



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passively, seemed inclined to accept the President's proposed program. The Senate is now considering the proposal and seems inclined to exhibit a bit more originality.

The United States continues to run heavy trade deficits, due largely to the huge dollar value of oil imports and, during July, the dollar moved downward vis-a-vis the Swiss, West German and Japanese currencies. There is some concern that a continuation of this trend could trigger withdrawals of funds by foreigners who have been heavy buyers of U.S. securities over the past few years.

A combination of the negative factors enumerated herein has led to a continuation of the decline in the stock market where, at the end of July, the Dow Jones Industrial Average hit an 18-month low. This market action and the slow growth of capital expenditures seem to be symptomatic of the feelings of uncertainty which pervade the thinking of many businessmen and investors at the moment. There is a definite aversion to risk-taking until the rewards can be more accurately assessed.

## HOUSING & CONSTRUCTION

*JUNE 1977*—For the third month in a row construction contracting turned in double-digit gains as June contracts were reported at $15.4-billion, up 41% from the year-ago level. While utility construction was the pacesetter, both housing and contracting for industrial and commercial buildings also showed good increases. Now that single-family housing has pretty much reached its upper limit, the potential for further gains in the residential category is in apartment buildings. All of the increase in value of non-residential building contracts was concentrated in industrial and commercial building. Nearly two-thirds of the amount attributed to nonbuilding construction was for three power plants in Tennessee, Arizona and Southern California.

*FIRST HALF 1977*—At the end of the first six months of 1977 construction contract value totaled $67.5-billion, 27% ahead of the same period in 1976. The cumulative total of residential construction was $28.6-billion, a 40% gain from the comparable year-ago amount. Nonresidential contracting was up 8% to $15.7-billion. Contracting for industrial and commercial building was up 17%, right in line with the expected increase of between 14% and 18% in business capital spending this year. Nonbuilding contracts totaled $23.1-billion, up 29% over 1976. The seasonally-adjusted Dodge Index (1967 = 100) recorded 207 in April, 317 in May and 284 in June.



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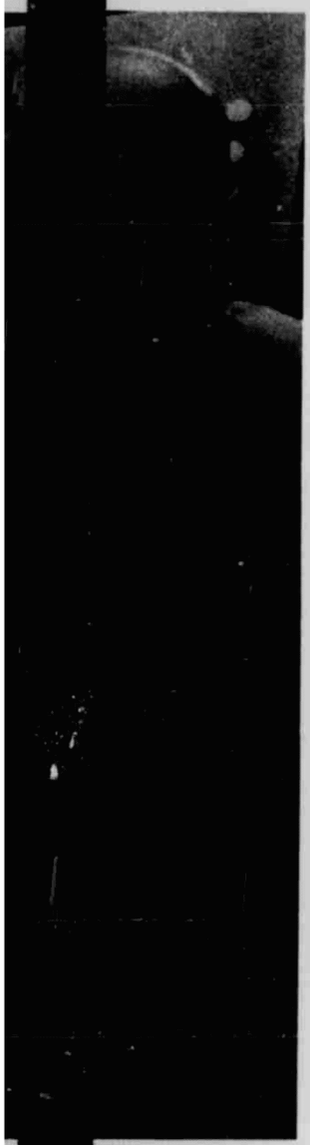
# Stretch protects against and related






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# wrapping broken bags dust problems.



Lake Asbestos now supplies two-ton units of asbestos fiber consisting of forty 100-lb. bags completely stretch wrapped in a tough polyethylene film. This protective wrapping virtually eliminates bag damage:

- During car loading and unloading
- During transit
- In storage and in-plant handling

Stretch wrapping is your best assurance that shipments will arrive damage and dust free. It also reduces unloading expense and helps control dust problems in your operation. It's available for a very nominal charge.

Stretch wrapping is evidence of Lake Asbestos' concern for its customers and the environment. For details contact Lake Asbestos of Quebec, Ltd., Black Lake, Quebec, Canada. Tel.: 418-423-4221. Or call a representative near you.

## LAKE ASBESTOS

A subsidiary of ASARCO





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# PRODUCTION—IMPORTS—EXPORTS

## CALIFORNIA ASBESTOS INDUSTRY

*Asbestos production* in California totaled 83,302 short tons in *1976*, valued at $16,951,000, approximately 30% of total U.S. output. The three asbestos mines currently operating in California are Atlas Asbestos Company, Calaveras Asbestos Ltd. and Union Carbide Corporation, via its Metals Division. Vermont and Arizona also produce the mineral.

## CANADIAN FIBER SHIPMENTS

Primary Canadian Producers' shipments of asbestos (including tonnage for own use) amounted to 129,691 short tons in *May 1977* compared with 142,531 tons for the fifth month of 1976. The cumulative total for the *First Five Months of 1977* was 662,855 tons: 531,286 tons from Quebec plants and 131,569 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon. The total for January-May 1976 was 688,849 tons: 552,606 tons from plants in Quebec and 136,243 tons from plants in the other four Provinces. [Statistics Canada, Ottawa]

## CANADA'S FLOOR TILE OUTPUT

*Production* of vinyl-asbestos floor tile by Canadian manufacturers in the *First Half of 1977* reached 22,071 metric tons (4.7-million square meters) compared with 27,696 tons (6.1-million square meters) in the same period a year earlier. *Shipments* reached 21,254 tons (4.4-million square meters) in the latest half-year against 24,459 tons (5.3-million square meters) in the first six months of 1976. [Statistics Canada]

## FELT SHIPMENTS FROM CANADA

Canadian shipments of asbestos, cotton and synthetic dryer felts and fabrics for the *First Quarter 1977* totaled 1,161,372 square feet (107,895 square meters) valued at $3,351,299. Shipments of woven and/or needled wet felts and jackets (including felts used in asbestos-cement pipe or sheet-forming operations) reached 581,023 pounds (263,544 kilograms) valued at $8,504,573. Shipments of paper machine forming fabric amounted to 499,219 square feet (46,379 square meters) valued at $3,583,015. [Statistics Canada]

## BRAZILIAN ASBESTOS PRICES

As of April 1977, the FOB prices per ton for Chrysotile asbestos-cement grades from Goias State, Brazil, destined for Sao Paulo, were: Grade 4K—Cr$7029, 4T—$4800 to $6249, 4Z—$4100 to $5564, 5K—$3423 to $3800, 5R—$3100, 6D—$2500, 7F—$989 and 8S—$467. [Ministry of Mines and Energy, Brasilia]



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# IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

| UNMANUFACTURED ASBESTOS: | | APRIL 1977 | |
|---|---|---|---|
| Amosite, South Africa | s.tons | 2 | $ 1,118 |
| Crocidolite (Blue), South Africa | s.tons | 2,270 | 647,860 |
| Chrysotile Crudes, Rhodesia | s.tons | 893 | 876,622 |
| South Africa | s.tons | 86 | 55,680 |
| Chrysotile Spinning Fibers, Canada | s.tons | 500 | 397,785 |
| Chrysotile, Other, Canada | s.tons | 43,610 | 10,165,430 |
| Mexico | s.tons | 6 | 1,194 |
| USSR | s.tons | 117 | 34,828 |
| Other Crudes & Fibers, Canada | s.tons | 1,016 | 201,053 |
| South Africa | s.tons | 325 | 160,398 |
| Sweden | s.tons | 1 | 495 |
| USSR | s.tons | 1,374 | 257,288 |
| | | 50,200 | $12,799,751 |
| **MANUFACTURED ASBESTOS PRODUCTS:** | | | |
| Asbestos yarn, cloth, tape, etc. | Lb | 939,973 | $ 1,295,500 |
| A-C pipes, tubes & fittings | Lb | 1,321,804 | 134,185 |
| Other asbestos-cement articles | Lb | 1,226,584 | 307,837 |
| Other asbestos articles | | .. | 495,991 |
| | | | $ 2,233,513 |

| UNMANUFACTURED ASBESTOS: | | JANUARY-APRIL 1977 | |
|---|---|---|---|
| Amosite, South Africa | s.tons | 22 | $ 13,394 |
| Crocidolite (Blue), South Africa | s.tons | 4,968 | 2,103,053 |
| Chrysotile Crudes, Canada | s.tons | 85 | 56,324 |
| Rhodesia | s.tons | 1,577 | 1,526,681 |
| South Africa | s.tons | 1,273 | 720,609 |
| Chrysotile Spinning Fibers, Canada | s.tons | 2,290 | 2,150,680 |
| Chrysotile, Other, Canada | s.tons | 167,260 | 38,197,945 |
| Mexico | s.tons | 11 | 2,435 |
| USSR | s.tons | 117 | 34,828 |
| Other Crudes & Fibers, Canada | s.tons | 4,030 | 796,138 |
| South Africa | s.tons | 1,429 | 757,941 |
| Sweden | s.tons | 1 | 495 |
| USSR | s.tons | 3,738 | 650,633 |
| | | 186,801 | $47,011,156 |
| **MANUFACTURED ASBESTOS PRODUCTS:** | | | |
| Asbestos yarn, cloth, tape, etc. | Lb | 3,348,411 | $ 4,680,411 |
| A-C pipes, tubes & fittings | Lb | 4,436,774 | 454,539 |
| Other asbestos-cement articles | Lb | 15,625,717 | 2,735,280 |
| Other asbestos articles | | .. | 2,242,715 |
| | | | $10,112,975 |



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Our Program
for the
Asbestos-Cement
Industry

Fully automatic
manufacture of:
Fully automatic
for the productio



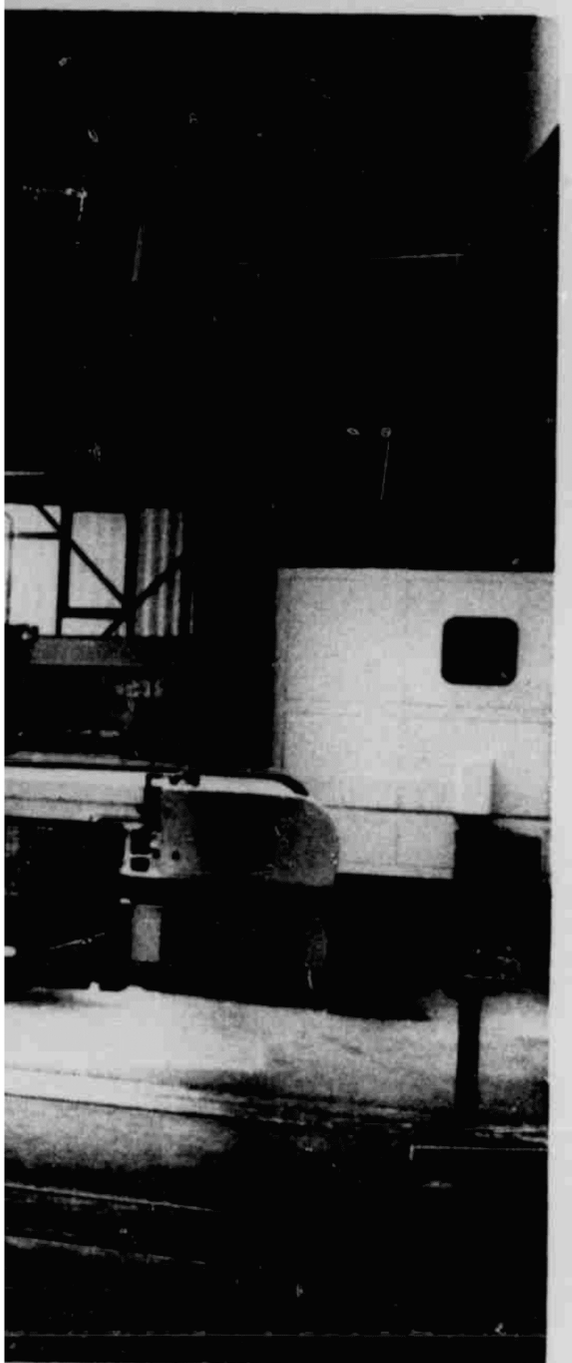
Siempelka


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# production plants for the

flat and corrugated asbestos-cement sheets
asbestos-cement pipes

# press lines on of:



highly compressed asbestos-cement sheets

Fully automatic press lines for: laminating of flat asbestos-cement sheets

Fully automatic press lines for the production of building elements

hydraulic presses for asbestos-cement-sheets

hydraulic stamping presses for edge trimming and cutting-to-size

hydraulic pipe testing presses

hydraulic pipe bursting presses

12.000 tons short-cycle press and 315 to stamping press for the production of asbestos-cement sheets
size of finished sheets: 1600 x 3600 mm
cycle time: 12 seconds

G. Siempelkamp GmbH & Co.


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# EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

| | | APRIL 1977 | |
|---|---|---|---|
| **UNMANUFACTURED ASBESTOS:** | | | |
| Fibers not further processed than beaten, washed or graded to length | s.tons | 913 | $ 412,468 |
| Waste and refuse | s.tons | 1,148 | 262,555 |
| | | 2,061 | $ 675,023 |
| **MANUFACTURED ASBESTOS PRODUCTS:** | | | |
| A-C shingles & clapboard | Lb | 1,614,111 | $ 284,996 |
| Other a-c fiber-cement articles | Lb | 5,143,102 | 1,181,184 |
| Gaskets | Lb | 105,844 | 229,660 |
| Packing | Lb | 327,968 | 987,903 |
| Heat or sound insulation | | .. | 248,913 |
| Textiles & yarns | Lb | 2,395,169 | 1,365,499 |
| Protective clothing | | .. | 101,174 |
| Mfrs. other than friction materials | | .. | 1,473,128 |
| Clutch facings & linings for auto. use | No | 62,009 | 88,432 |
| Other clutch facings & linings | No | 11,996 | 26,926 |
| Brake linings for automotive use | Lb | 1,142,459 | 1,000,876 |
| Other brake linings | Lb | 167,572 | 257,864 |
| | | | $ 7,246,555 |

| | | JANUARY-APRIL 1977 | |
|---|---|---|---|
| **UNMANUFACTURED ASBESTOS:** | | | |
| Fibers not further processed than beaten, washed or graded to length | s.tons | 4,661 | $ 2,062,971 |
| Waste and refuse | s.tons | 6,452 | 1,433,566 |
| | | 11,113 | $ 3,496,537 |
| **MANUFACTURED ASBESTOS PRODUCTS:** | | | |
| A-C shingles & clapboard | Lb | 2,602,598 | $ 442,429 |
| Other a-c fiber-cement articles | Lb | 10,895,845 | 2,245,633 |
| Gaskets | Lb | 400,433 | 787,324 |
| Packing | Lb | 1,619,802 | 3,936,016 |
| Heat or sound insulation | | .. | 1,315,025 |
| Textiles & yarns | Lb | 8,728,493 | 4,598,668 |
| Protective clothing | | .. | 509,785 |
| Mfrs. other than friction materials | | .. | 4,298,615 |
| Clutch facings & linings for auto. use | No | 148,368 | 277,320 |
| Other clutch facings & linings | No | 87,366 | 148,378 |
| Brake linings for automotive use | Lb | 3,853,640 | 3,568,793 |
| Other brake linings | Lb | 725,466 | 972,683 |
| | | | $23,100,669 |



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# EXPORTS FROM CANADA

From: Statistics Canada

**APRIL 1977**
Short Tons

| UNMANUFACTURED ASBESTOS: | Crude | Milled Gp 3 | Milled Gp 4&5 | Shorts Gp 6-9 |
|---|---|---|---|---|
| Western Europe | .. | 538 | 13,667 | 9,377 |
| Eastern Europe | .. | 326 | 2,045 | 7 |
| Middle East | .. | .. | 2,303 | 239 |
| Africa | .. | .. | 850 | 200 |
| Asia | .. | 334 | 10,659 | 10,975 |
| Oceania | .. | .. | 5,134 | 273 |
| So. & Cen. America & Antilles | .. | .. | 3,192 | 2,051 |
| United States | .. | 626 | 10,315 | 36,089 |
| | .. | 1,824 | 48,165 | 59,211 |

The total amount of unmanufactured asbestos exported in *April 1977* was 109,200 short tons, valued at $36,858,000.

**MANUFACTURED ASBESTOS PRODUCTS:**

| | |
|---|---|
| Asbestos cloth, dryer felts & sheets | $ 75,000 |
| Asbestos brake linings & facings | 207,000 |
| Asbestos-Cement building materials | 985,000 |
| Other basic asbestos products | 344,000 |
| | $ 1,611,000 |

**JANUARY-APRIL 1977**

| UNMANUFACTURED ASBESTOS: | Crude | Milled Gp 3 | Milled Gp 4&5 | Shorts Gp-6-9 |
|---|---|---|---|---|
| Western Europe | 54 | 4,329 | 98,005 | 55,135 |
| Eastern Europe | .. | 927 | 11,509 | 1,567 |
| Middle East | .. | 198 | 8,795 | 1,331 |
| Africa | .. | .. | 5,127 | 2,915 |
| Asia | .. | 1,102 | 39,545 | 54,840 |
| Oceania | .. | 18 | 23,879 | 3,371 |
| So. & Cen. America & Antilles | .. | 508 | 25,637 | 10,517 |
| United States | .. | 2,972 | 44,335 | 132,062 |
| | 54 | 10,054 | 256,832 | 261,738 |

The total amount of unmanufactured asbestos exported in *January-April 1977* was 528,678 short tons, valued at $181,200,000.

**MANUFACTURED ASBESTOS PRODUCTS:**

| | |
|---|---|
| Asbestos cloth, dryer felts & sheets | $ 406,000 |
| Asbestos brake linings & facings | 800,000 |
| Asbestos-Cement building materials | 3,366,000 |
| Other basic asbestos products | 1,422,000 |
| | $ 5,994,000 |



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# CURRENT ASBESTOS PRICES

**ARIZONA** *Per Ton of 2000 Lbs., F.O.B. Globe, Arizona*
*As of July 1, 1976* *U.S. Dollars*

| | | |
|---|---|---|
| No. 1 Crude (Soft) | $ .. | $3000.00 |
| No. 2 Crude (Soft) | .. | 1800.00 |
| AAA | .. | 1300.00 |
| Group No. 3—Nonferrous Filtering—Plastic | 750.00— | 840.00 |
| Group No. 4—Nonferrous Filtering—Plastic | 750.00— | 840.00 |
| Group No. 7—White Shorts | 100.00— | 200.00 |

**QUEBEC** *Per Ton of 2000 Lbs., F.O.B. Mine*
*As of July 1, 1977* *Canadian Dollars*

| | |
|---|---|
| No. 1--Crude | $3300.00—$4000.00 |
| No. 2--Crude | 1800.00— 2175.00 |
| No. 3—Spinning Fiber | 850.00— 1700.00 |
| No. 4—Asbestos Cement Fiber | 530.00— 700.00 |
| No. 5—Paper Fiber | 315.00— 400.00 |
| No. 6—Paper and Shingle Fiber | 245.00— 275.00 |
| No. 7—Shorts | 90.00— 200.00 |

**CASSIAR** *Per ton of 2000 Lbs., F.O.B. North Vancouver, B.C.*
*As of July 1, 1977* *Canadian Dollars*

| | | |
|---|---|---|
| | *Cassiar Mine* | |
| C-1 | —No. 1 Crude | $3621.00 |
| AAA | —Nonferrous Spinning Fiber/Canadian Group 3 | 2000.00 |
| AA | —Nonferrous Spinning Fiber/Canadian Group 3 | 1600.00 |
| A | —Nonferrous Spinning Fiber/Canadian Group 3 | 1050.00 |
| AC | —Nonferrous Spinning Fiber/Canadian Group 3 | 913.00 |
| AK | —Asbestos Cement Fiber/Canadian Group 4 | 770.00 |
| AS | —Asbestos Cement Fiber/Canadian Group 4 | 670.00 |
| AX | —Asbestos Cement Fiber/Canadian Group 4 | 580.00 |
| AY | —Asbestos Cement Fiber/Canadian Group 5 | 420.00 |
| AZ | —Asbestos Cement Fiber/Canadian Group 6 | 320.00 |
| | *Clinton Mine* | |
| CP | —Asbestos Cement Fiber/Canadian Group 4 | 730.00 |
| CT | —Asbestos Cement Fiber/Canadian Group 4 | 650.00 |
| CY | —Asbestos Cement Fiber/Canadian Group 5 | 420.00 |
| CZ | —Asbestos Cement Fiber/Canadian Group 6 | 320.00 |

**VERMONT** *Per Ton of 2000 Lbs., F.O.B. Morrisville, Vermont*
*As of January 1, 1977* *U.S. Dollars*

| | | |
|---|---|---|
| Grade 4T—Fiber | $ ..— | $ 477.00 |
| Grades 5D thru 5R—Fiber | 314.00— | 369.00 |
| Grade 6D—Waste | ..— | 228.00 |
| Grades 7D thru 7T—Shorts | 95.00— | 182.00 |
| Grade 7TF—Floats (Shorts) | ..— | 82.00 |
| Grade 8S—Shorts | ..— | 62.00 |
| Hooker No. 1—in 50-lb. woven polypropylene bags | | 1110.00 |
| Hooker No. 2—in 100-lb. woven polypropylene bags | | 555.00 |



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— Machinery for asbestos-cement since 1912, therefore take advantage of our experience.

— Complete plants with high capacity for corrugated and flat sheets, flat pressed and coloured sheets.

— Production of special sheets up to 9 mt length.

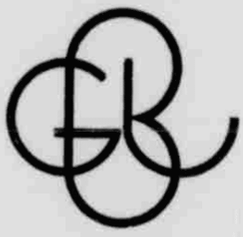
— Auxiliary machines for special sheet profiles.

— Complete plants with high production for pressure and sewage pipes.

— Special plants for preparation of wet and dry Asbestos.

— Machines for finishing pipes.

— Complete projects, know-how, technical assistance for sheet and pipe lines.



*Officine Meccaniche*

**BAZZI G. & L.** *s.n.c.*

*Corso Indipendenza n. 33*
*Telefono (0142) 72444*
*Telex 22114 BAZZI I*
*15033 CASALE MONFERRATO (Italia)*

BAZZI

# ANNUAL REPORTS—1976

## CERTAINTEED CORPORATION

With an acceleration of corporate progress that began in January, CertainTeed's improved performance levels were anticipated and then confirmed by the financial results posted in 1976. Net sales reached $665-million compared with $553-million a year earlier and net income totaled $36.6-million against $19.5-million. The company's roofing business was a predictable and significant contributor to the improvement and as expected, the piping and plastic businesses recovered from the depressed levels reported in 1975.

Considerable management energies are being devoted to expansionary thoughts. Indispensable in the implementation of such concepts has been the support by Saint-Gobain-Pont-a-Mousson, now the holder of about 54% of CertainTeed's voting shares. Through SGPM's contribution of a high technology base, CertainTeed has extended its fiber glass production capability utilizing processes which already have been time-tested abroad. A new roofing facility at Oxford, North Carolina, will be operational early in 1978. Also, CertainTeed is capitalizing on strong technological skills in the rapidly-expanding fiber glass reinforcements market with the start-up this spring of a continuous-strand fiber glass plant at Wichita Falls, Texas. Other efforts include the production of fiber glass roofing mat and a proposed West Coast insulation facility.

Piping system products manufactured and/or distributed by CertainTeed include PVC and asbestos-cement pipe, cast and ductile iron pipe, tubings, fittings, valves, meters, pumps, polyethylene and polybutylene tubings and water treatment chemicals. These products represent 21% of CertainTeed sales. . . . The automotive market combined with other markets such as acoustical, mining, electrical and telephone, plus the company's emergence into the fiber glass-reinforced plastics market accounts for 10% of CertainTeed's current sales.

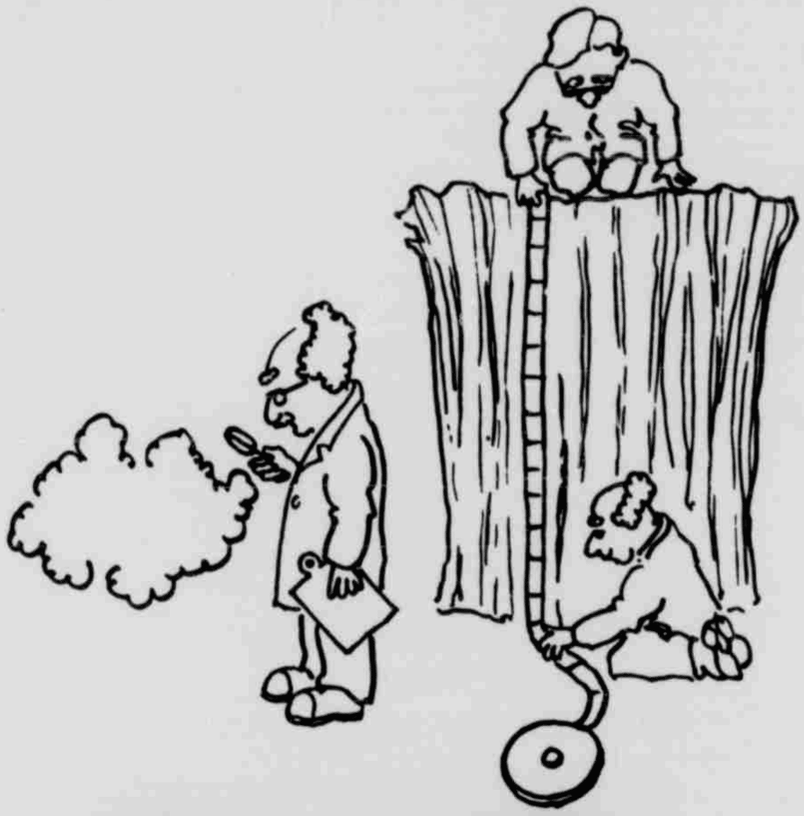
## COLT INDUSTRIES INC.

Net earnings in 1976 for Colt Industries Inc. were $61.6-million, or $8.30 per common share, on sales of $1.3-billion, compared with net earnings in 1975 of $52-million, or $7.07 a common share, on sales of $1-billion. Among the important contributors to the 24% sales and 18% earnings growth were Colt's Holley carburetors, Colt firearms, Fairbanks industrial weighing equipment and Garlock industrial seals and components. In February of this year, Colt reached an agreement in principle to acquire Menasco Manufacturing Company through a merger.

Colt's newest line of business, industrial seals and components sold under the Garlock product name, had an exceptionally good year. Generally high levels of machinery and equipment production, coupled with strong truck sales and a resurging automotive market, provided heavy demand for Garlock seals, gaskets, bearings, valves and packings. Garlock products accounted for 14% of company sales in 1976 and



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# Amosite from Cape

With its outstanding filtration characteristics, Amosite in asbestos cement products improves drainage, speeds production.
Its longer fibres add flexibility and strength and for insulation there is nothing better.
Of course, much of this depends on the suitability of the fiberisation techniques employed. And on the application of the right amphibole fibre for the job—two very special good reasons for contacting Cape, the world's largest producers.
Our technical service people will be happy to advise on any aspect.

## Cape's Research Makes it Work

CAPE

**Cape Asbestos Fibres Ltd.,**
Iver Lane, Cowley,
Uxbridge, Middlesex.
Telex: 23471/UXB
Tel: Uxbridge (89) 37111

**N. American Asbestos Corp.,**
Suite 2950,
150 N. Wacker Drive,
Chicago, Illinois 60606
Tel: (312) 726 8515

18% of pre-tax earnings. . . . During the year the Garlock Mechanical Packing Division opened a new plant in Sherbrooke, Quebec, for the production of asbestos yarn and cloth used in its manufacture of braided, twisted and woven packing. . . . Also in 1976 the Garlock Packing International Division opened a new manufacturing plant near Manila, in the Philippines, for the production of braided and twisted packing products. The Division also expanded the capacity of its plant in Barcelona, Spain, where a complete line of twisted and braided packing is produced.

## McADAM MINING CORPORATION LTD.

In its Annual Report for the year ended December 31, 1976, McAdam Mining Corporation Ltd. advised that Rio Algom Mines Ltd. has completed sampling of the core drilled on the Roberge Lake C Zone during the late winter and early spring of the year. A final report on this work is being prepared by SNC-Geco Ltd., the consultants retained to look after the detailed processing of the samples at the Pilot Plant in Quebec City. Much uncertainty exists in the Province of Quebec regarding the future of the asbestos industry after the Parti Quebecois came into power in the fall of 1976 and McAdam is awaiting the government's final policy decisions, which undoubtedly will affect the production plans for the Roberge Lake deposits.

Preliminary results from the joint venture with Campbell Chibougamau Mines Ltd. on the Q project were quite encouraging. The magnetometer and geological programs were completed early in the summer, disclosing five potential zones of asbestos-bearing serpentinized peridotite. Results from drilling were of sufficient importance and significance that McAdam retained Dr. R. B. Graham, Consulting Geologist. After examining the property and drill cores and assessing all data pertaining thereto, Dr. Graham has recommended an initial program of 10,000 feet of N-Q diamond drilling at an estimated cost of $162,000 to drill a series of holes in a grid pattern over two of the potential zones. Arrangements were made with a brokerage firm to underwrite 600,000 shares to net the company $210,000 to carry out this work but because of the uncertainty generated by the Quebec political situation, McAdam is holding the matter in abeyance until the picture is clarified.

An additional 45 claims were staked adjoining the asbestos prospect in the Toronto Lake area, Thunder Bay Mining Division, Ontario, which now comprises a 62-claim group. A magnetometer survey was completed disclosing two anomalous zones straddling the property in the east-west direction, the west zone measuring 9,000 feet by an average 1,200 feet in width and the second zone to the east almost 10,000 feet in length by an average of 3,500 to 5,000 feet in width. A geological examination will be made to explore and assess the asbestos showings and ore possibilities on this property as well as on the 20-claim group held to the southeast.

Under an agreement dated December 17, 1976, McAdam purchased from two Directors, a one-half interest in 45 unpatented claims to the Toronto Lake and Willet Lake areas in the District of Thunder Bay, Ontario, at the staking cost of $2,150.



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# ASBESTOS STOCK QUOTATIONS

***July 19, 1977***

| | | | |
|---|---|---|---|
| Abitibi Asbestos | C$.77 | G&W (pfd 3.87) | 65¼ |
| Advocate Mines | C$3.55 | G&W (pfd 5.75) | 73⅜ |
| Armstrong Cork | 20¾ | IC Industries | 26⅞ |
| Armst. Cork (pfd 3.75) | 51½ | IC Ind (pfd 6) | 120⅞ |
| Asarco | 18¾ | IC Ind (pfd 3.50) | 47 |
| Asbestos Corporation | C$24.50 | Jim Walter Corporation | 32 |
| Bendix | 41 | Jim Walter (pfd 1) | 11½ |
| Bendix (pfd 3) | 82¼ | Jim Walter (pfd 1.60) | 34⅛ |
| Carlisle | 24⅝ | Johns-Manville | 38 |
| Cassiar Asbestos | C$9.375 | Kennecott Copper | 30 |
| CertainTeed | 25⅝ | Lear Siegler | 17 |
| Charter Conso. | pence 128 | Lear Siegler (pfd 2.25) | 42⅜ |
| Colt Industries | 52½ | Maremont | 18⅞ |
| Colt Ind. (pfd 1.60) | 28¼ | McAdam Mining | C$.26 |
| Colt Ind. (pfd 4.25) | 76 | National Gypsum | 16¾ |
| Conwest | C$4.75 | Pathfinder | C$.31 |
| Flintkote | 20⅛ | Porter (pfd 5.50) | 73½ |
| GAF Corporation | 10¾ | Raybestos-Manhattan | 31¾ |
| GAF (pfd 1.20) | 16¾ | Rio Algom | C$28.375 |
| Gulf & Western | 13¼ | Supradur | Bid 6; Asked 6½ |
| G&W (warrants) | ¼ | Union Carbide | 49¼ |
| G&W (pfd 2.50) | 34⅜ | Woodsreef Minerals | C$.88 |


**POLYREZ COMPANY, INC.**




**PHENOLIC & CASHEW RESINS**
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# MEN ON THE MOVE

## ASARCO INC.

*Lionel C. Piuze* was awarded the Selwyn G. Blaylock Medal by the Canadian Institute of Mining and Metallurgy "in recognition of his outstanding achievements in the mining field." He is Vice President-Operations and a Director of Lake Asbestos of Quebec Ltd., a wholly-owned subsidiary of Asarco. Mr. Piuze also serves as President of the Committee on the Environment, Quebec Asbestos Mining Association. . . . *Harold F. X. Plate* was appointed Marketing Manager for LAQ, it was announced by *Roland P. Gagnon,* Sales Vice President. Mr. Plate, who will be located in New York City, had been Vice President-Sales and Traffic for United Asbestos Inc.

## JOHNS-MANVILLE CORPORATION

As of the beginning of this year the Asbestos Fiber Division has been completely reorganized, with the following new assignments: *Dimitry Poutiatine*—Director of Marketing, *Denis M. Kelleher*—Marketing Manager, *Lutz Siebert*—International Sales Manager, *J. Eugene Connor*—National Sales Manager (U.S. & Canada), *James F. Reis*—Market Manager, *D. Lloyd Monroe*—Staff Manager, Marketing Services, *Neal B. Norris*—Market Manager (Felt), *Miguel C. Leman*—Sales Representative (Latin America), and *Douglas E. Berlin*—Sales Representative (Far East). Mr. Poutiatine replaced *Noel W. Hendry* who is now General Manager, Mining Division. All of these people are headquartered at Denver, Colorado.

## NATIONAL GYPSUM COMPANY

*Robert E. Scifres,* a Director and Group Vice President, was elected to the newly-created position of Vice Chairman. *C. Rex Morgan,* formerly Vice President for Corporate Services, was elected a Group Vice President, responsible for National's cement, DMH Company, manufactured housing and Binning's building products units.

## NICOLET, INC.

*C. Fred Workman,* President of the Norristown Division, announced the promotion of *Charles L. Horst* to Plant Manager of the Norristown Plant. Prior to joining Nicolet in 1976, Mr. Horst had been with Knoll International, gaining wide experience in industrial engineering and production management.

## TURNER & NEWALL LTD.

*Dr. A. J. P. Sabberwal,* Managing Director of Asbestos Cement Ltd., a T&N subsidiary in India, has been appointed Joint Managing Director of TAC Construction Materials Ltd., a T&N subsidiary in England. The appointment will become effective November 1, 1977.



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# BIRTHDAY GREETINGS to . . .

*William B. Quinn,* Director of Marketing Services, RM Friction Materials Company, Trumbull, Connecticut, September 15.

*Chester E. Shepperly,* Sr. Vice President-Marketing & Administration, Johns-Manville Corporation, Denver, Colorado, September 15.

*R. D. N. Somerville,* Deputy Chairman & Joint Managing Director, Engineering Components Ltd., Slough, England, September 15.

*William L. VanDerbeek,* Sr. Vice President-Asbestos Fiber, Mining, Canadian Products & Pipe, Johns-Manville Corporation, Denver, Colorado, September 15.

*F. D. Loneragan,* a Director, James Hardie Asbestos Ltd., Sydney, New South Wales, Australia, September 16.

*Norbert E. Vits,* Managing Director, Don International S.A., Manage, Belgium, September 16.

*Warren T. Whitley,* President & Chief Executive Officer, Cement Asbestos Products Co., Birmingham, Alabama, September 16.

*John Blondeau,* Central Regional Manager, Carey-Canadian Mines Ltd., Cincinnati, Ohio, September 17.

*D. Michael Pearson,* Chairman, BBA Group Ltd., Cleckheaton, Yorkshire, England, September 18.

*W. W. Oughtred,* President and Chief Executive Officer, Asbestos Corporation Ltd., Montreal, Quebec, September 19.

*Dr. J. B. Frost,* Managing Director, Cape Investments (Pty) Ltd., Benoni, Republic of South Africa, September 21.

*C. H. Walters,* Chairman, The Griqualand Exploration & Finance Co. (Pty) Ltd., Johannesburg, Republic of South Africa, September 22.

*Donald E. Meads,* Chairman and Chief Executive Officer, CertainTeed Corporation, Valley Forge, Pennsylvania, September 23.

*G. Gagnon,* Mill Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, September 24.

*N. Rhodes,* a Director and General Manager, Asbestos Textiles Division, TBA Industrial Products Ltd., Rochdale, England, September 24.

*Win Brown,* Vice President, MacArthur Company, St. Paul, Minnesota, September 25.

*Robert M. Gordon,* President and Chief Operating Officer, Raybestos-Manhattan, Inc., Trumbull, Connecticut, September 25.

*D. W. Jaquays,* President, Jaquays Mining Corporation, Phoenix, Arizona, September 27.

*Guy W. Fiske,* Chairman, Asbestos Corporation Ltd., Montreal, Quebec, September 28.

*John G. Cole,* Mine Manager, Advocate Mines Ltd., Baie Verte, Newfoundland, October 5.

*Jerome E. Hammand,* President, Vermont Asbestos Group, Inc., Hyde Park, Vermont, October 10.

*E. L. Alexander,* Project Manager, Cassiar Asbestos Corporation Ltd., Vancouver, British Columbia, October 11.

*John G. Berry,* General Manager and a Director, Cassiar Asbestos Corporation Ltd., Vancouver, British Columbia, October 11.

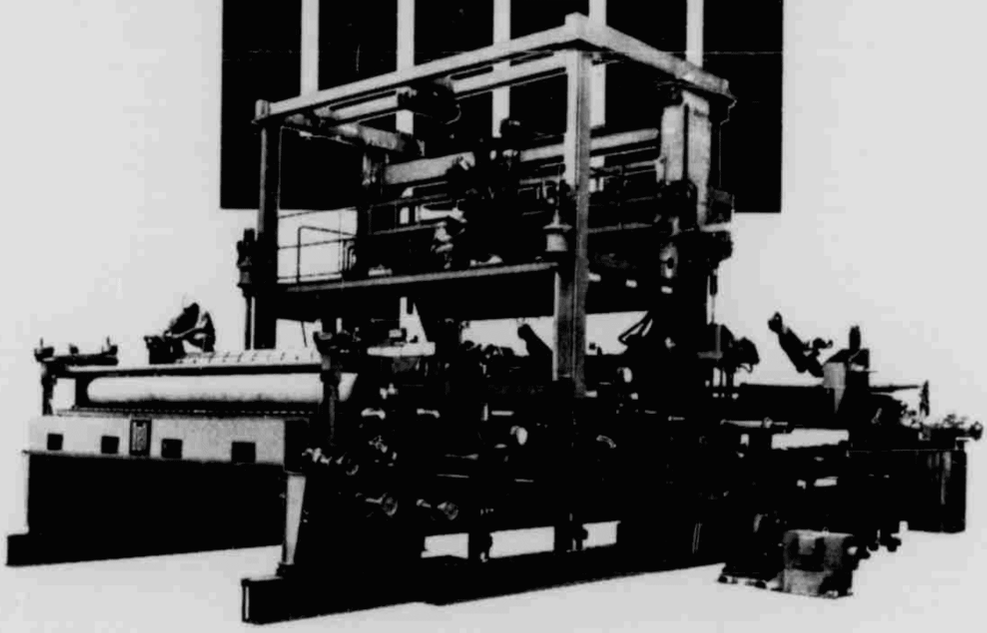
*G. P. Valgardson,* Sales Office Administrator, Cassiar Asbestos Corporation Ltd., Vancouver, British Columbia, October 11.

*J. W. Rawlings,* Vice President/Product General Manager, Union Carbide, Metals Division, Niagara Falls, New York, October 12.


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# IN MEMORIAM

## A. B. CUMMINS

*Dr. Arthur Benson Cummins*, an internationally recognized authority on asbestos mining, mineralogy and filtration technology of silica and diatomaceous earth, died March 10, 1977, at age 81. Dr. Cummins received a B.S. degree in 1920 from the University of Chicago and a Ph.D. from the University of California in 1926. He joined the Celite Company in 1924 and when Johns-Manville Corporation acquired the firm in 1930 he became Manager of Celite Research. In 1948 he became Manager of J-M's Research Department, was named Manager of the Basic Research, Magnesia and Minerals Department in 1950 and Manager of the Central Chemical and Physical Research Department in 1956. Following his retirement in 1960 as Research Manager for J-M, Dr. Cummins became a Consultant in industrial minerals, serving as Senior Technical Consultant for the Quebec Asbestos Mining Association and as U.S. Department of State Consultant for the Federal People's Republic of Yugoslavia. Dr. Cummins held 17 patents, had written many published technical papers, was a recipient of the Hal Williams Hardinge Award "for outstanding achievement in the industrial minerals field" and served as President of the Society of Mining Engineers. He became an Honorary Member of AIME in 1971.

## L. R. ADDISON

*Leslie Raymond Addison* died from an automobile accident on February 6, 1977, just eight months from having been appointed General Manager at the Penge Mine of Cape Asbestos South Africa (Pty) Ltd. Born in Rhodesia, Mr. Addison obtained his Mine Surveyor's Certificate in 1949 as a Member of Nchanga Mines Survey Department. An Anglo-American bursary in 1952 afforded him the opportunity to study at the Camborne School of Mines in the United Kingdom from where he graduated with honors in 1955. He later was Shift Boss and Assistant Manager for Nchanga and Chief Mining Engineer and Mine Manager for Bamangwato Concessions Ltd. in Botswana.

## L. WARE

*Louis Ware*, 82-year-old retired Board Chairman of International Minerals & Chemical Corporation, died May 8, 1977. A native Kentuckian and prominent industrialist, Mr. Ware served 20 years as Chief Executive Officer of IMC and during that time led the company to a position of world leadership in agricultural chemicals and industrial minerals. He also served on the Boards of U.S. Gypsum Corporation, the First National Bank of Chicago, Air Reduction Corporation and Illinois Central Railroad. In 1964 he received the Hal Williams Hardinge Award "for his vision and success in promoting the development and widespread commercialization of industrial minerals." His career began in the copper mines of Arizona.



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# VALUABLE LITERATURE

*PROCEEDINGS OF 2ND INTERNATIONAL INDUSTRIAL MINERALS CONGRESS*—Complete texts and spoken commentary of the 21 papers and one film presented at the Congress held May 1976 in Munich, West Germany; includes transcript of the discussion following each presentation, the opening and closing addresses and biographical notes on the authors and session chairmen; contains comprehensive 26-page paper by H. H. Gossling of the South African Minerals Bureau titled "The World Asbestos Industry As Seen From South Africa." [252 pages; published in English; $45.00; order from Metal Bulletin Ltd. or through ASBESTOS]

*A GUIDE TO THE WORK-RELATEDNESS OF DISEASE*—Discusses factors associated with establishing the relationship between disease and occupation; describes method for collecting, organizing and appraising medical, occupational and other evidence with the aim of determining the probable work-relatedness of a given disease; contains a list of occupations with potential exposure to selected agents; includes an 8-page section on asbestos. [123 pages; $1.90; DHEW (NIOSH) Publication 77-123; order from Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402]

*PHYSICOCHEMICAL METHODS OF MINERAL ANALYSIS*—Handbook edited by A. W. Nicol of the University of Birmingham; discusses application of physicochemical methods of analysis using principally electromagnetic and electron beam stimulation and sensing techniques, with particular emphasis on nondestructive methods; reports on up-to-date techniques in optical spectroscopy, x-ray methods, electron probe microanalysis, optical and scanning electron microscopy, spark source mass spectroscopy, radiochemical analysis, infrared spectroscopy and thermal analysis. [508 pages; $34.50; order from Plenum Publishing Company or through ASBESTOS]

*A PRACTICAL GUIDE TO THE OCCUPATIONAL SAFETY & HEALTH ACT: LAW, PRINCIPLES & PRACTICES*—Working guide by W. B. Connolly, Jr., Esq., and D. R. Crowell, II, Esq.; provides complete coverage of OSHA provisions and explains their practical consequences, helping the reader to determine when and how to respond and to take the initiative; provides forms, checklists and other documents required for court or administrative proceedings. [994 pages in the two-volume set; $65.00; order from Law Journal Press or through ASBESTOS]

*MINING ANNUAL REVIEW, 1977*—Authoritative review of the international mining industry, by metal, mineral and country; includes technical progress reports concerned with mineral exploration, open-pit mining and underground mining, mineral processing and extractive metallurgy; contains professional directory, buyers' guide and indices to manufacturers, companies and advertisers. [588 pages; $19.00; order from The Mining Journal Ltd. or through ASBESTOS]



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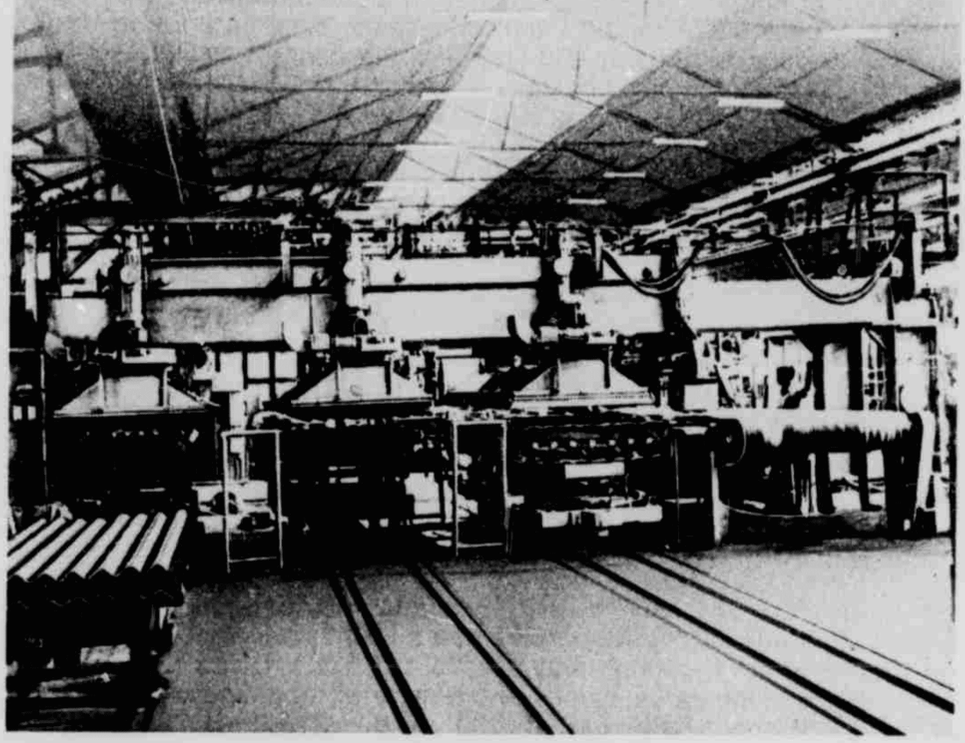
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*NBS NON-DESTRUCTIVE EVALUATION PROGRAM*—Brochure describing the NDE Program at the National Bureau of Standards, formed in 1975 to assist industry and government agencies improve the reliability of materials and structures through standardized NDE measurements. [Free copy available from Mr. Harold Berger, Manager, NDE Program, Materials Building A363, NBS, Washington, D. C. 20234]

*PARTICULATES AND FINE DUST REMOVAL, 1977*—Pollution Technology Review No. 34 by M. Sittig; discusses the processes and equipment to be used to reduce particulate and fine (fugitive) dust emissions at the source; is based mainly on reports of federally-financed air pollution studies. [605 pages; $48.00; order from Noyes Data Corporation or through ASBESTOS]

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## *STILL AVAILABLE . . . .*

*RECOMMENDED WORK PRACTICES*—Five manuals published by the Asbestos Information Association/North America: Recommended Work Practices for the Fabrication and Use of Asbestos Paper Products; Shop and Field Fabrication of Asbestos Sheet Products; Molding and Fabrication of Asbestos Containing Plastic Products; Fabrication and Use of Asbestos Friction Materials; and Use and Handling of Asbestos Textile Products. [$1.35 each plus postage; order from AIA/NA, 1835 K Street, N.W., Suite 402, Washington, D. C. 20006]

*ASBESTOS/A REMARKABLE MINERAL FIBER*—Reference book on asbestos by Marion S. Badollet; presents technical information on asbestos minerals and data on the chemical, physical and optical properties of Chrysotile, Riebeckite, Anthophyllite and Tremolite; contains electron micrographs, thermal analyses and X-ray diffraction patterns. [80 pages; $20.00 per copy; advance payment required; order from ASBESTOS Magazine]

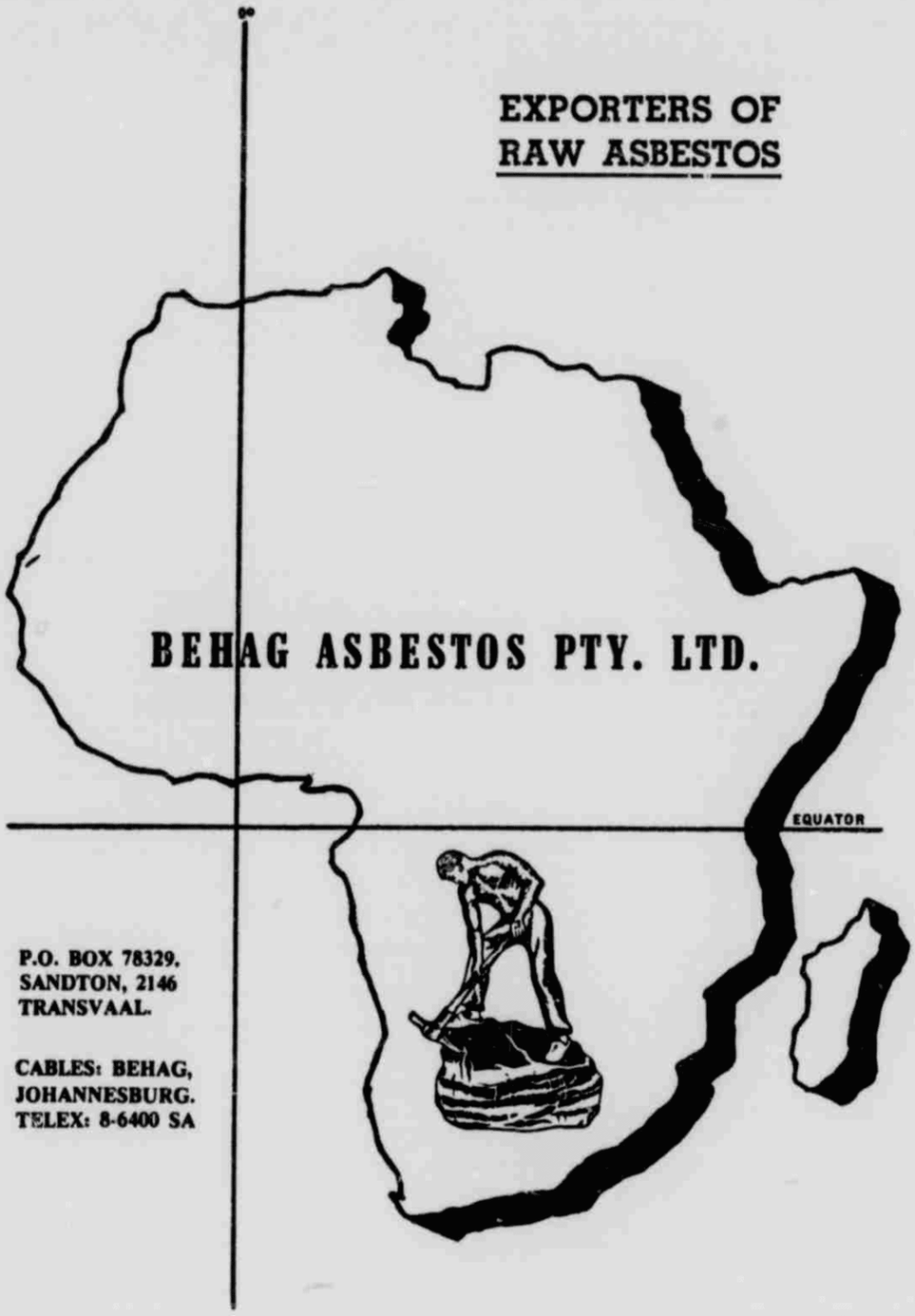
*CHRYSOTILE ASBESTOS TEST MANUAL, 3RD EDITION*—Prepared jointly by the Asbestos Textile Institute, Inc., and the Quebec Asbestos Mining Association; provides 34 standard methods for testing the physical and chemical properties of Chrysotile asbestos fiber. [$18.95 to the U.S., Canada and Mexico; $21.95 to all other countries; place orders with ASBESTOS Magazine]

*THE ASBESTOS FACTBOOK, 3RD EDITION*—Compiled by the staff of ASBESTOS Magazine; written in layman's terms; offers useful information on the origin, locations and uses of asbestos; gives the chemical compositions of the various types of the mineral; contains data concerning testing methods and grades. [28 pages; $1.00 per paper-bound copy; order from ASBESTOS Magazine]



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# NEW ASBESTOS PATENTS

U.S. patents may be purchased from The Commissioner of Patents, Washington, D. C. 20231, for 50c each. Photoprints of non-U.S. patents may be purchased from the same source at a cost of 30c per page. Remittances should be in coin, currency or check and the number of the patent, name of the inventor and date of issue should be given.

*British 1,468,065*—Flame retardant, readily punchable insulating board for use as a support for printed circuits, etc., is made from a mixture of (1) Chrysotile asbestos, (2) an inorganic cementitious binder, (3) lime, alumina, diatomite or expanded perlite as an inorganic filler and (4) a phenolic resin or other thermosetting resin; H. Nishi, K. Hasegawa & A. Furugoori; assigned to Sumitomo Bakelite Co. Ltd. & Sansui Electric Co. Ltd., March 23, 1977; 8 pages.

*U.S. 4,028,328*—To prevent reaction discoloration of vinyl-asbestos tile there is added to the usual mixture of a vinyl resin, a hydro-carbon resin, asbestos, a plasticizer stabilizer, melamine, fillers and pigment, etc., either neodecanoic acid or diethanolamine neodecanoate as an anti-pinking additive; G. Rubin; assigned to Exxon Research & Engineering Co., June 7, 1977; 4 pages.

*U.S. 4,031,041*—Manufacture of a microporous membrane for use as a diaphragm in electrolysis cells; a premix of calcium carbonate and asbestos is blended with a fluorocarbon polymeric resin latex, water and a plasticizer, the blend rolled into sheets and the sheets sintered to remove the carbonate; P. Bouy, M. Juillard & J.-L. Bourgeois; assigned to Rhone-Poulenc Industries, June 21, 1977; 8 pages.

*U.S. 4,031,046*—Exothermic shapes for foundry use are formed by dry pressing or wet-forming a mixture of a major proportion of aluminum dross and minor proportions of aluminum powder and/or chips, asbestos, wood meal, iron oxide, cryolite, phenolformaldehyde resin and a wetting agent; J. Tisza; assigned to Firma TIDO Chemische-technische Produkte GmbH, June 21, 1977; 4 pages.

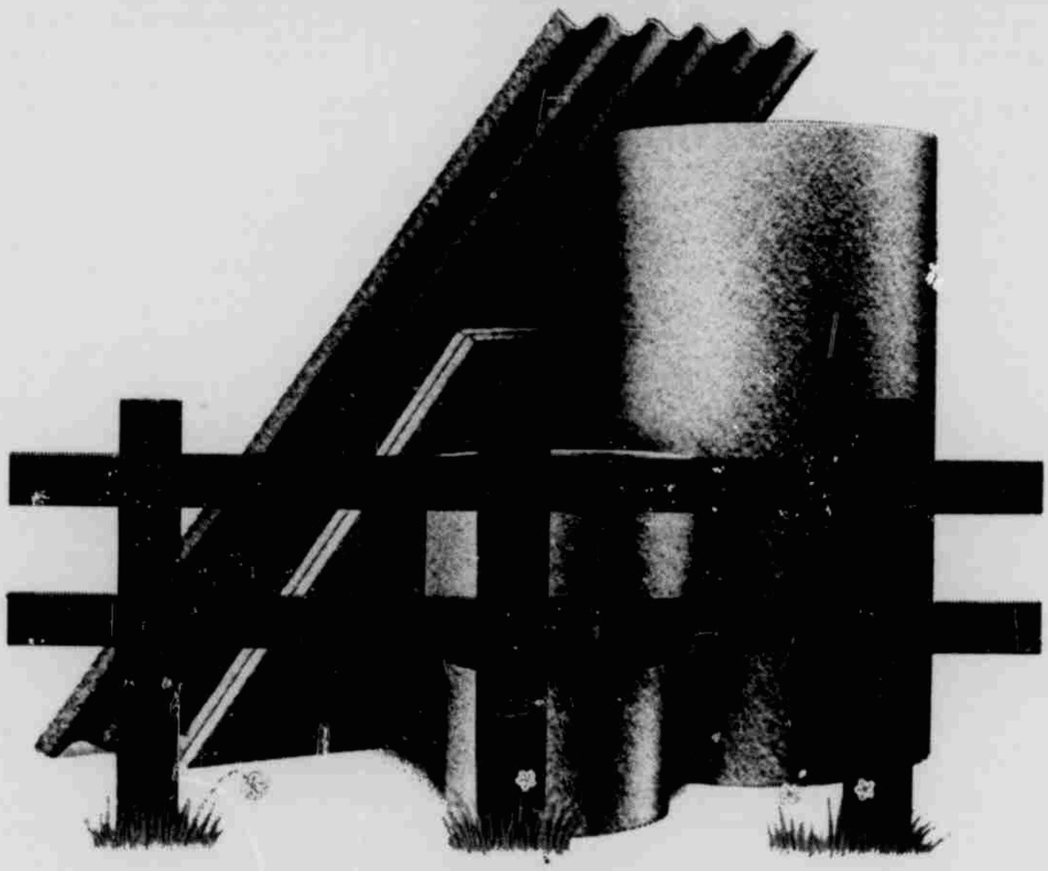
*U.S. 4,032,011*—In the compression packaging of milled asbestos the fibrous mass is dampened and precompacted and the precompacted mass subjected to a final compression to obtain blocks having a density of preferably at least 100 pounds per cubic foot; G. L. Lambert; assigned to Johns-Manville Corporation, June 28, 1977; 7 pages.

*U.S. 4,032,392*—The filtration rate of beater-saturated asbestos slurries is improved by adding to the slurry polyvinylidene chloride as a secondary binder which tends to agglomerate the asbestos fibers; F. J. Koller, Jr.; assigned to Armstrong Cork Co., June 28, 1977; 4 pages.



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# CALENDAR OF EVENTS

*PROFESSIONAL DEVELOPMENT*—Seminars at McGill University, Montreal, Quebec: Ground Control, *September 12-16;* Instrumentation for Rock Mechanics, *September 19-23;* Slope Instability, *September 26-30;* Applied Fragmentation, *October 3-7;* Management of Canada's Mineral Resources, *October 17-19;* and Isolated Communities and the Mineral Industry, *October 31-November 2.*

*EXHIBITIONS AT U.S. TRADE CENTERS*—Industrial Process Controls and Equipment, Sao Paulo, Brazil, *September 12-16;* Advanced Building Technology/Materials and Equipment, Singapore, *September 19-23;* Noise and Vibration Control Equipment, Milan, Italy, *September 27-30;* Building and Construction Materials and Equipment, Tehran, Iran, *November 13-17;* and Pollution Control Equipment, Singapore, *November 14-18.*

*MATERIALS RESEARCH/CALL FOR PAPERS*—The 9th Materials Research Symposium of the National Bureau of Standards will be held in Gaithersburg, Maryland, April 10-13, 1978; emphasis will be on total analysis, from collection of sample through interpretation of results; *abstracts should be submitted by September 15.*

*OCCUPATIONAL HEALTH*—19th International Congress will cover a broad range of subjects pertaining to occupational health; Dubrovnik, Yugoslavia, *September 25-30.*

*CORPORATE GROWTH BY MERGERS/ACQUISITIONS*—A Continuing Education Seminar; San Diego State University, San Diego, California, *September 22-23.*

*AMERICAN SOCIETY FOR TESTING AND MATERIALS*—Forthcoming meetings of ASTM Committees include E-2 on Emission Spectroscopy, Fort Lauderdale, Florida, *September 24-28;* C-16 on Thermal & Cryogenic Insulating Materials, Williamsburg, Virginia, *September 25-28;* D-30 on High Modulus Fibers and Their Composites, together with a Symposium on Environmental Effects on Advanced Composite Materials, Dayton, Ohio, *September 27-30;* F-6 on Resilient Floor Coverings, Philadelphia, Pennsylvania, *October 3-4;* D-14 on Adhesives, San Diego, California; *October 12-14;* D-13 on Textiles, New York City, *October 24-27;* and F-3 on Gaskets, Chicago, Illinois, *October 26-28.*

*CONSTRUCTION MARKETING SEMINAR*—The Fall 1977 program of the Producers' Council, Inc.; Chicago O'Hare Marriott Hotel, Chicago, Illinois, *September 28-30.*

*DURABILITY OF BUILDING MATERIALS AND COMPONENTS/CALL FOR PAPERS*—This First International Conference will be held at the University of Ottawa, *August 21-23, 1978;* it is sponsored by the National Research Council of Canada, ASTM, NBS, and Reunion International des Laboratoires d'Essais et de Recherches sur les Materiaux et les Constructions; *abstracts of papers are due by September 30, 1977.*

*PROCESS CONTROLS*—Specialized U.S. Trade Mission to Saudi



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Arabia, Kuwait and Syria, *October 1-19;* U.S. Trade Mission to the same countries, *October 3-19.*

*LITIGATING AN ANTITRUST CASE*—Course presented by the Practising Law Institute; *October 3-4* in New York City; *December 15-16* in San Francisco, California.

*FLAMMABILITY OF TEXTILES*—Technical Seminar to be held during the *October 3-14* meeting of ISO/TC38/SC19 on Burning Behavior of Textiles and Textile Products; to be hosted in Washington, D. C., by the U.S. Technical Advisory Group with representatives of ASTM Committee D-13 on Textiles.

*MEXICAN ASSOCIATION OF MINING ENGINEERS, METALLURGISTS & GEOLOGISTS*—12th National Conference; Acapulco, Mexico, *October 16-20.*

*IDENTIFICATION OF ASBESTOS*—Course giving background in polarized light microscopy and dispersion staining for the identification of serpentines and amphiboles and associated minerals; known and unknown insulation and talc samples will be analyzed; other analytical methods for asbestos, including x-ray diffraction and electron microscopy, will be discussed; McCrone Research Institute, Chicago, Illinois, *October 24-26.*

*ASBESTOS EXHIBITION*—A show concerned with asbestos-based materials and technical articles; the Romanian foreign trade company involved is Vitrocum; Bucharest, Romania, *November 15-18.*





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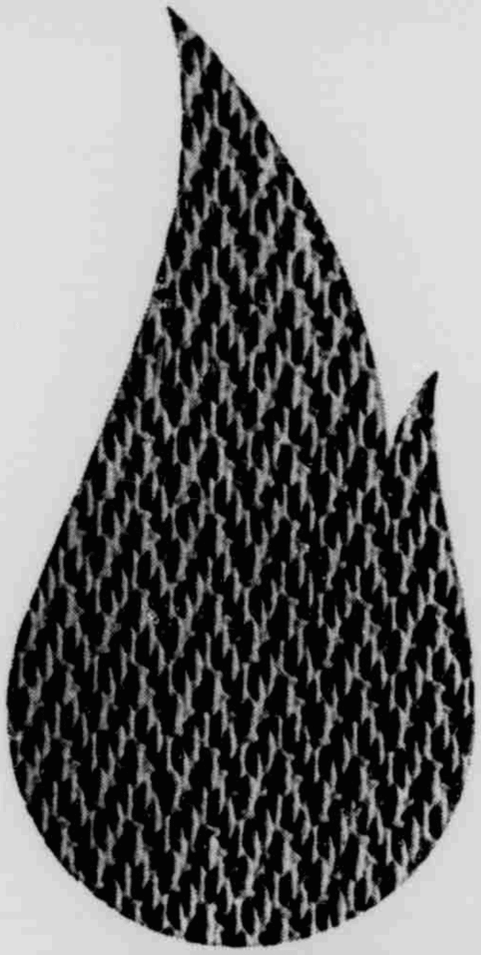




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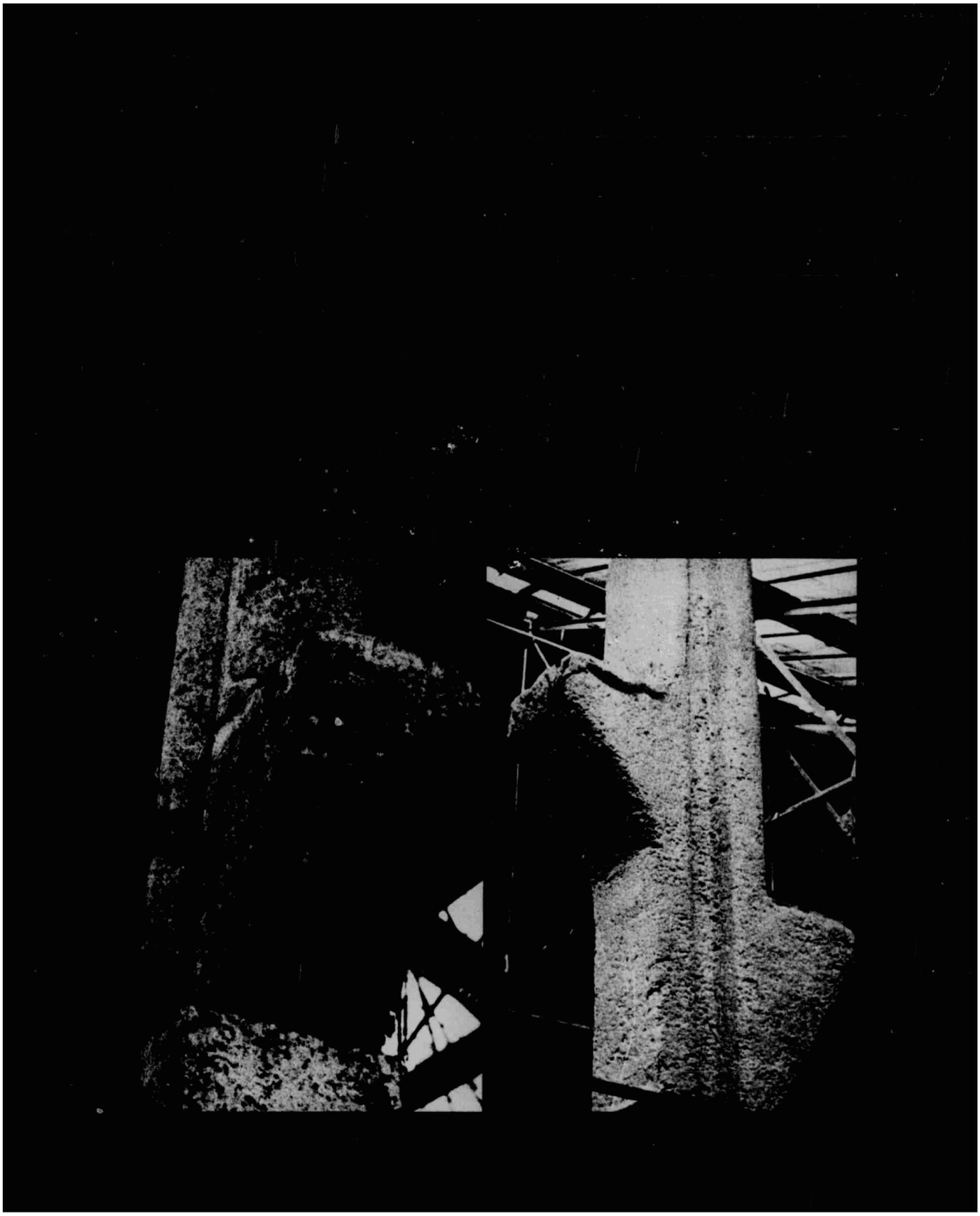
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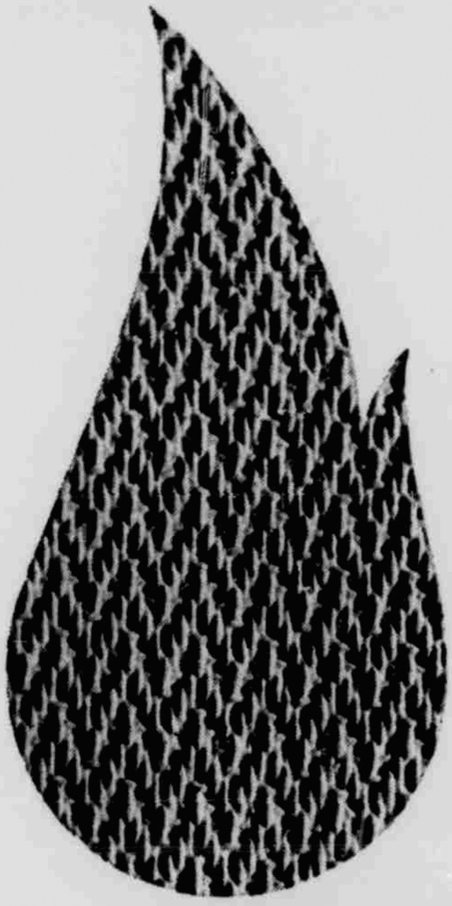

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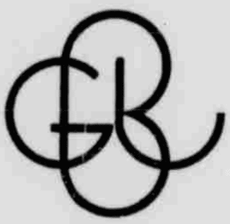
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