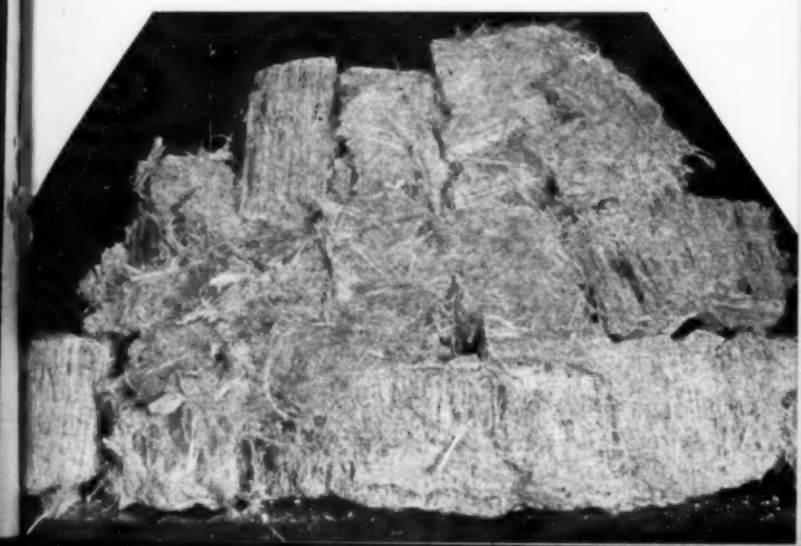
ASBESTOS

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FOUNDED IN JULY 1919 AND PUBLISHED
CONTINUOUSLY SINCE THAT DATE

A. S. ROSSITER, *EDITOR*

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THE SQUEEZED "THIRD"

An Editorial By C. J. Stover

The President, in a recent speech, told us that, roughly, one-third of our people are engaged in agriculture, one-third in the labor of industry, and the remaining third in transportation, communications, professions and services.

Since Government subsidizes the farmer directly and indirectly, and also encourages him to cooperate in grading, price-fixing and selling; since Government aids and abets the labor of industry in its effort to get higher wages, and since all of the *costs* of *both* these Government aids comes out of the "service third" in taxes, either the "service third" gets too large a share of the national income, or—it is just plain dumb.

A lot of parlor theorists propose entire elimination of the "middleman" or "service third" but none of them has indicated how that third could then be supported.

This proposal is on a par with the other idea of entirely eliminating the army and navy, also with no suggestion as to how these many hundreds of thousands of men and women in the service, and producing for it, are to live.

It is quite difficult for a practical business man to agree that the service third gets too much for its service. True, there is a very small number of men who appear to get a reward out of all proportion to their service to society. But against this handful, there are millions of small merchants, professional men, salesmen and the like who, if anything, are grossly underpaid for their services to society.

I prefer to think this service third is made to pay and pay and is always made the "goat" for any loud mouthed political attacks, because it is dumb. Too dumb to organize, get its snout in the trough and get political consideration.

It is my last thought to grumble about anything the

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farmer and the unions have gotten. They deserve it all and then some. But why cannot the service third get together and *demand* equal consideration.

How many farmers pay income taxes, regardless of their incomes?

How many industrial workers pay income taxes, and what effort is made to collect them?

How much Government money is spent to assess and collect taxes against these two classes?

Conversely, any member of the service third is assessed, examined, investigated and given the general runaround, and the service third pays *almost* the whole bill.

True, the Social Security Tax does hit the industrial worker, but *if* it is insurance, he at least expects to reap some future return.

My real point is the need for organization of the service third.

It's a big bet that the five millions of dollars *secretly* voted by Congress to be *secretly* used by certain top Government men is *not* for the benefit of the service third. My gamble would be that it is "snoop" money and the service third is on the receiving end of the "snooping."

I would like to run for President on a platform of one sentence,—

"Fire all snooping and other nonessential Government employees, and repeal at once all Federal Laws—then start over again."

RAW ASBESTOS

N. V. NEDERLANDSCHE ASBEST MY

P. O. BOX 803

ROTTERDAM (Holland)

Stocks at

Hamburg Rotterdam

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ODD USES OF ASBESTOS

By M. E. Lerner

Each year finds asbestos—in one form or another—discovering new applications in industry. These applications range from the prosaic to the ingenious. Here are a few selected for their novelty and to indicate the variety of purposes to which asbestos lend themselves.

For instance: the Sta-Warm Electric Company, Ravenna, Ohio, machinery and equipment producers, recently perfected a special electric materials heater in conjunction with the engineering division of the B. F. Goodrich Company, Akron. The inner unit of this device consists of a number of multiple heating circuits each of which acts to divide electric current into many small streams of heat each following a path to distribute the total heat evenly from the bottom to the top of the container. The individual heating circuits are insulated and covered with a fireproof clay which is baked in position. The complete unit is then covered with an outer lining of asbestos cloth. The asbestos-covered unit is then placed in its outer shell and the tank outlet and the thermostat are sealed in a heated chamber. According to the manufacturer, use of the asbestos cloth in covering the heating circuits effectively prevents "freezing" of the material in the container when the material is drawn out of the tank.

A humidifying device, one in which the action is entirely automatic, requiring no motors or apparatus, was recently developed by the Peter Gray Corporation, Cambridge, Mass., called the "Airstat," this device fits directly over radiators and is quickly and easily installed. It applies the principle of evaporation thru wick action, heated air passing freely thru the wick and absorbing the required moisture. The Airstat consists of two metal troughs, the upper one of which has horizontal, slanting slits. Between the two metal plates (or troughs) is a fitted piece of asbestos wadding. The hotter the radiator gets the more moisture the Airstat supplies, the use of asbestos being ideal for this "air conditioning" action.

An oil burner hose with corrugated inner tube of

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Asbestos Fibre

for the manufacture

of

Roofing Cements · Fibrous Paints
Filtration Packings
Asbestos Shingles and Lumber
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Asbestos Paper · Pipe Coverings
Asbestos Millboard
High Temperature Cements

THE QUEBEC ASBESTOS CORPORATION

Office and Mines
EAST BROUGHTON, PROVINCE of QUEBEC
CANADA

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silicon bronze was recently developed by the Eclipse Aviation Corporation, East Orange, N. J., for special use in the aviation industry. This hose utilizes an asbestos product to provide leak-proof joints. The hose is made of seamless tubing and is covered with galvanized-steel braids in the run between the end fittings. Ferrules are fitted near the two ends and split washers with skirts at their ends, are slipped between the tube and the braid inside the ferrules. The inner portion of the skirt fits into one of several corrugations and two or three of the corrugations are pressed flat against it when the adapter at the end of the assembly is tightened down by turning a nut. Asbestos cord packing is placed in the end corrugations before the nut is tightened thus providing a leak-proof joint. Because the slightest leak is extremely dangerous in hose of this type, asbestos again proves its supremacy over other products.

What is termed a brand new stove accessory, one designed in keeping with the beautiful new tabletop gas ranges which have recently made their appearance, is the Pro-Tex pad, a product of the Ballonoff Metal Products Company, Cleveland, Ohio. This pad is a metal-topped, heavy asbesbtos board which prolongs the life and safeguards the beauty of the porcelain finish used on the tabletop gas ranges. It may also be used to protect refrigerator tops. The company features two models of the metal-topped asbestos board, one with a cross-crimped silver finish and the other in a striped nickel plated silver surface. This latter model resembles the bright striped finish on an expensive silver cigarette case. Sold in a standard 18 x 20 inch size, this new accessory, made possible by asbestos board, keeps surfaces clear and free from marring, scratching and discoloration caused by pots, pans and other kitchen utensils.

An improved pipe coupling under the name of "Tite-Line" has been developed by the National Tank Company, Tulsa, Oklahoma. Assembling over the ends of butted lengths of pipe, this coupling uses one of two specially designed gaskets, one an asbestos-rubber gasket

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From

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to

FINISHED PRODUCT

Johns-Manville carries on the entire process of manufacturing asbestos. Mines in Arizona and Canada, thirteen factories located strategically across the continent and branch offices in all large cities assure prompt and efficient service.

In a hundred ways Johns-Manville products contribute to the comfort of modern life and to the efficiency of industrial establishments. Packings, high temperature insulations, refractory cements, low pressure insulations, asbestos roofings, brake linings and industrial friction materials, flooring and acoustical treatment form some of the major items manufactured by Johns-Manville.

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for use where temperature does not exceed 150 degrees F. and the other an all-asbestos gasket for temperatures up to 800 degrees F. The gasket rides the surface of the pipe between the grooves and the pipe ends. In application, the gaskets are spread over the surface of the pipe filling any pitted spots in the metal surface and preventing leakage caused by either pressure or suction.

The medical profession has long sought for some apparatus capable of radiating heat energy great enough to penetrate into the tissues of the body without burning and blistering the skin. Not until the development of Pyrexon Applicators by the Pyrexon Ray Corporation of America, New York City, was such an apparatus available. Adaptable for the treatment of sprains, contusions, sciatica, lumbago, arthritis, and a number of other so-called circulatory diseases, these new applicators heat up in five minutes. They are so designed that the heat is produced by a concealed element and filtered thru three separate discs—mica, asbestos and copper, respectively. Being located between the mica and copper discs, the asbestos discs bears the brunt of the heat. Weighing only 6½ pounds, the Pyrexon Applicator supplies heat at a temperature between 200 and 260 degrees F., together with infra-red rays. A three heat switch for control of heat intensity is part of the applicator's standard equipment. This is one example where an asbestos product aids humanity.

Use of asbestos in various forms in safety devices has long been recognized. A unique shield, however, recently perfected for the protection of kiln burners (operators) adds a new note. Kiln burners frequently make observations thru openings around the kiln hood. The new shield, which is approximately 6 feet high and 4 feet wide, utilizes a framework of tubular piping. Similar pipe is used for supporting arms from the shield to the base of sheet steel on which it rests, making a steady arrangement. Within the frame a large panel of corrugated asbestos sheet, similar to that used for roofing, is inserted and held in place by strips of flat iron stock. At normal eye level a large aperture is cut in the asbestos sheet and a frame of

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ASBESTOS TEXTILES
OF PROVED QUALITY

. The long and unusually broad experience of The Keasbey & Mattison Company in the production of asbestos products of all kinds is clearly evident in the quality of K & M Asbestos Textiles. They provide dependable and lasting service under the widest variety of conditions.

K & M Asbestos Clothing, made of these textiles, is designed for the maximum of comfort, serviceability and safety. It is available in practically every type of garment.

KEASBEY & MATTISON COMPANY

AMBLER • PENNA.

K&M best in asbestos

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steel is inserted. In this frame is placed a section or pane of ¼ inch glass thru which the observation can be made. The whole assembly, with the exception of the bolts which hold the asbestos sheet to the cross strap supports, is of welded construction. The asbestos sheet enables the kiln burner to get right next to the kiln opening (which is seen thru the glass) to make his observation with perfect safety and comfort to himself.

Another development that should interest members of the asbestos industry in general is the rapid advance taking place in the production of compressed asbestos sheet in which neoprene[1] is used as a binder. This sheet resembles ordinary compressed asbestos sheet (used mostly for packings) in that it is made of long fibre asbestos, felted and bonded together into a homogeneous mass under heat and pressure to the required thickness, the major difference being the incorporation of the synthetic rubber. The big advantage in this sheet is the fact that use of the synthetic rubber makes the sheet highly resistant to the action of oils, gasoline and all petroleum solvents which often seriously attack ordinary compressed sheet packings made with regular rubber binders. The one detriment in the new type of compressed asbestos sheet, according to several asbestos engineers, is that altho synthetic rubber withstands temperatures up to 200 degrees F. and 40 degrees below zero without any change in its consistency it loses its mechanical strength above or below such temperatures.

[1]DuPont trade-mark for synthetic rubber; formerly called DuPrene.

PROBLEM

Someone has figured out that from the wood in his cradle to the wood in his casket, the average individual's consumption of wood is equivalent to at least 300 trees in the form of houses, furniture, papers, matches, pencils, cars, fabrics and thousands of other things.

Will someone in the asbestos industry figure how much asbestos the average individual uses in a lifetime?

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ASBESTOS

Arizona Crude
Canadian Crude
Canadian Spinning Fibre
Canadian Shingle Fibre
Cyprus Asbestos
Italian Crude
Russian Crude
Rhodesian Crude
South African Blue Crude
South African Yellow Crude

ASBESTOS LIMITED INC.

8 West 40th Street : New York City

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CAREYDUCT--

The asbestos insulated duct for air conditioning systems

An entirely new asbestos material for an entirely new use has recently been placed on the market by the Philip Carey Company of Lockland, Cincinnati, O.

Careyduct, as its name implies is a fabricated material designed to replace the metal duct used in air conditioning systems. It is made in standard double layer sections three feet long, each section consisting of an inner layer or core of a solid, firm asbestos structure. Over this core and making a close *sliding* fit is an outer shell or insulating jacket made of multiple layers of fine corrugated asbestos firmly bonded to form a substantial structure and give high insulating value.

The surface of the material is smooth and of the natural asbestos color, but any decorative finish can be added. The outside surface of the insulating jacket has been hardened as a protective measure against damage during erection and when in service.

One of the very pleasing features claimed for this new duct material is that it is "non-resonating"—actually "hushes" fan noises.

Any one of the many Carey branches or agents will supply further information. An attractive 18 page book, bound in dull blue cover, gives much information in the way of tables and graphs showing heat losses, average weights, list prices, etc.

The Binks Manufacturing Company, 3114-40 Carroll Avenue, Chicago, Ill., has announced the publication of an entirely new set of catalogs containing the latest engineering data and information on their line of Water Cooling Towers and Industrial Spray Nozzles. Their 24 page catalog on Industrial Spray Nozzles for Water Cooling, Air Washing, Air Conditioning, etc. (Bulletin No. 150) may be of particular interest. Copies may be obtained by writing the company.

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P. E. COOMBES--

Succeeds W. A. Godfrey as Secretary of Cape Asbestos Co.

On December 31, 1937, W. A. Godfrey, for 23 years connected with Cape Asbestos Company, Limited, of London, England, resigned his position as Secretary of the firm, and has been succeeded by P. E. Coombes, who has served the Cape Asbestos Company for almost as long a term—from 1916.

Mr. Godfrey was educated privately at Luton, Bedfordshire and entered Municipal Service with the Town Clerk of that town in 1888. He spent 15 years in municipal service, eventually acting as Assistant Borough Treasurer to the Metropolitan Borough of Hampstead, London.

In 1903 Mr. Godfrey was appointed Chief Accountant to the Bristol Water Works Co., with whom he remained for five years. Subsequently he became Secretary to the British Electrical Federation, a large concern interested in the financial and administrative control of tramway and electric lighting undertakings in England, which post he left to become Secretary of Cape Asbestos Company limited.

Mr. Coombes was appointed Accounts Clerk of the Cape Asbestos Company in 1916, was subsequently made Accountant to the Company, and on January 1st of this year was made secretary.

Our best wishes are extended to both Mr. Godfrey and Mr. Coombes.

TRAILERS

It looks as tho the manufacture of Trailers is going to develop into a real industry, in fact the increase in number of trailers on the road this year in comparison with last is quite surprising.

And this comparatively new Industry has not passed asbestos products by.

Anyone can name quite a few uses of asbestos products in connection with trailers, but the latest is the use of asbestos-cement shingles for the roof. The Roll-A-Way Home, made by the Home Trailer & Manufacturing Company features an asbestos-cement shingle roof; when stop-

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ARIZONA ASBESTOS

All grades of Arizona Asbestos from the Emsco-owned Arizona Mine now available in crude, graded, and spinning fibres. This asbestos is pure white, with exceptionally high tensile strength—is loftier, weighing 50% less by volume than ordinary asbestos, and is non-ferrous.

All fibre of the highest grade and of the utmost uniformity in grading and volume. For samples, prices, and further information write direct to the Emsco Asbestos Company, Downey, Calif.

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Shingles
Paper stocks
Cement stocks
Textiles
Yarns
Cord
Cloth
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Gaskets
Brake lining
Clutch facing
Boiler covering
Molded material
Millboard
Tanks
Paint

EMSCO ASBESTOS COMPANY

DOWNEY, CALIFORNIA, U.S.A. CABLE ADDRESS—EMBESTOS

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ped for the night it resembles a small cottage with steps and everything!

We can imagine that because of their light weight and durability under all kinds of weather conditions, asbestos-cement shingles would work out well as a covering for these travelling houses.

LINING OF ASBESTOS PAPER

Quite a business developed in the lining process.

In the Paper and Twine Journal, August 1937 issue, an article on Asbestos Lined Paper gives information on various papers *lined* with asbestos.

The article points out that there are many purposes where asbestos paper, altho necessary from a fire resistant point of view, is undesirable or impossible to use because of its ordinarily rough finish.

For example there seems to be some demand for an asbestos lined envelope in which to mail small quantities of book matches.

All of us in the Asbestos Industry are quite familiar with the "glazed finish" pipe covering. The pipe covering is made like any other asbestos or aircell pipe covering and then, as the Paper Industry puts it "asbestos paper lined on the outside with some glazed stock" is used for the last wrapping. Similarly asbestos paper is lined with gold or silver paper to harmonize with other decorations in the room in which the covering is to be used.

The New England Card & Paper Co. of Springfield, Mass., makes a specialty of this lining of asbestos paper with glazed or other paper. They do not manufacture the asbestos paper but obtain it from various asbestos manufacturers and then line it with the coated papers which they themselves make. Incidentally they have built up quite a business in this special lining process.

The American Society for Testing Materials, 260 S. Broad St., Philadelphia, has issued a new edition of the Index to A. S. T. M. Standards and Tentative Standards—823 in all. Copies of the publication will be furnished without charge upon request to the above address.

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REVOLITE—

Something new in Asbestos Laundry Roll Covers

For many years the laundry industry has been looking for a flat work ironer cover that would give long life and at the same time assure a quality finish. The Atlas Powder Company, Revolite Division, Stamford, Conn., believes it has the answer in its Revolite Asbestos Laundry Roll Covers introduced about three years ago for laundries catering to institutional work, and the new type cover, for general laundries, placed on the market in the fall of 1937.

Revolite is the trade name of all type cloths processed with a special, flexible Bakelite resinoid; in the laundry covers (and also for the making of aprons, gloves, leggings, helmets and cable wrappings) asbestos cloth, specially woven, is used.

These covers, which are patented, are said to be unaffected by oil or grease and are immune to all ordinary acids and alkalies encountered in laundry practice; will not deteriorate from the heat and pressure encountered in laundry service until long after they have shown a substantial saving. The covers are waterproof, heat retentive, accurate in size and thickness and do not wrinkle. They dry by evaporation instead of absorption, thus eliminating the disadvantage of wet rolls and consequent staining of materials. It is claimed that Revolite laundry roll covers for institutional work, in constant operation, have given from nine to as many as fourteen months' service without failure. This, of course, means that there are fewer shut-downs during working hours to change covers. These Revolite covers are said to work best with asbestos paddings.

Editor's Note: The information in this article was supplied by W. A. Michie, Sales Manager Revolite Division, Atlas Powder Co., Stamford, Conn., who will no doubt be glad to supply further data to anyone interested.

The most valuable "system" is a good nervous system.

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JOHNSON'S COMPANY

ESTABLISHED IN 1895

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Thetford Mines, P. Q., Canada

Mines

Thetford Mines, Quebec
Black Lake, Quebec

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MARKET CONDITIONS

GENERAL BUSINESS

"The opening month of the new year has brought a spotty improvement in orders in some of the industries and commodity markets, but nothing like a general forward movement or revival. After four months or more of sharp curtailment in buying, many distributors have had to come back into the markets to fill in stocks, and manufacturers have moderately increased their purchases of materials. However, the improvement is limited, and the volume is encouraging only in comparison with what had gone before. The situation is bound to be full of irregularities and contradictions at this stage. In some lines and some trade channels inventories have begun to run low, while in others stocks are still excessive. Some industries have curtailed as much as necessary to balance the market position for the present, and a few are increasing their operations slightly but others probably will have to reduce further unless their sales pick up more convincingly. In general the improvement in buying has not warranted an increase in industrial output." So read the opening paragraphs of the National City Bank Letter for February.

A little further on the letter says: "The prevailing opinion of business men seems to be that the recession will pass thru its low point during the first quarter, and possibly is already doing so; but expectations as to the rate of recovery are conservative. Since the outlook for the second quarter depends so greatly on what is done in the first quarter, the disposition is to defer prophecy."

ASBESTOS - RAW MATERIAL

While there has been a falling off in the importation of asbestos into the U. S. A. from Canada there is no indication of any price reduction.

All mines are enjoying good business in Europe and contracts already placed by Japan for 1938 delivery ex-

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VERMONT ASBESTOS



SEND for a sample of this well-fiberized Vermont Asbestos. You will appreciate its bulk, uniformity, and freedom from foreign substances. Prices will interest you.

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- Shingles
- Millboard
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can be fastened to all kinds of surfaces including AIR CONDITIONING DUCTS, with **COLD**

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SEND FOR FOLDER

ceed purchases of last year. Only inability to obtain foreign funds prevents Japan from taking delivery of material.

ASBESTOS-MANUFACTURED GOODS

Textiles. In the Asbestos Textile Industry the situation remains unchanged from previous reports. Volume is extremely small and prospects for rapid increase in volume are poor. Prices continue to remain fairly firm.

Paper and Millboard. Demand in the asbestos paper market continues light; millboard demand shows a little more activity than paper. Prices are holding firm, especially in view of the raw material prices.

Insulation, High Pressure. Demand continues to shrink in sympathy with the downward trend in heavy industry operations. Outlook for increased consumption is hazy, depending as it does on increased expenditures by utilities and industrials for plant extensions and improvements.

Engineering awards are reported to be running slightly ahead of last year

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but some time will probably elapse before these developments are reflected in the insulation market.

Insulation. Low Pressure. Some little improvement is noted in this market over last month; prices are firm.

Asbestos Cement Products. Sales of asbestos-cement products have fallen off considerably in volume during the past few months due to seasonal conditions and the so-called recession in business.

For the first time since asbestos shingles have been offered especially for siding purposes, sales for the current year are less than for a like period of the year previous.

The industry is apparently facing smaller volume with considerably increased productive capacity — a combination which may put a strain on prices if general conditions do not improve during the spring building season.

The above comments are made by men in close touch with the various markets. Such comments are welcomed from all our readers, particularly those who market the various materials.

CURRENT RANGE OF PRICE

on Canadian Crudes and Fibres

	Per ton (2000 lbs.) f. o. b. Mine
Group No. 1 (Crude No. 1)	$700.00 to $750.00
Group No. 2 (Crude No. 2; Crude Run-of-Mine and Sundry[1])	150.00 to 350.00
Group No. 3 (Spinning or Textile Fibre)	110.00 to 200.00
Group No. 4 (Shingle Fibre)	57.00 to 76.50
Group No. 5 (Paper Fibre)	40.00 to 45.00
Group No. 6 (Waste, Stucco or Plaster)	30.00
Group No. 7 (Refuse or Shorts)	12.00 to 25.00

1 Crude Run-of-Mine refers to a crude asbestos produced in certain mines where Crude Fibre is not graded into regular No. 1 and No. 2 Crude. Crudes Sundry refers to certain odd lots of off grade material which do not conform to the regular standards of No. 1 Crude or No. 2 Crude.

ASBESTOS
ORES - MINERALS
Import · Transit · Export
"Tropag" Asbest & Erzimport
Oscar H. Ritter — K.G.
Hamburg · — · Alsterdamm 7

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CONTRACTORS AND DISTRIBUTORS PAGE

New Products and New Lines

Exclusive distributing rights for building purposes east of the Rocky Mountains for Air-Met, a new type of aluminum foil insulation particularly adapted for houses (Walls and attic insulation) have been obtained by The Ruberoid Co. Outstanding advantages claimed for Air-Met, in addition to high thermal efficiency, are its light weight and easy portability, ease of application, imperviousness to moisture and vermin, long life and elimination of dirt and inconvenience that necessarily accompany installation of bulkier forms of mass insulation. Quite an interesting addition to the house insulation line.

A new plaster base, known as Steeltex for Plaster - Type A, has been introduced by Johns-Manville. It is claimed to be superior in many ways to the company's original Steeltex and priced approximately 20% lower. It consists of 16 gauge, galvanized, copper-bearing steel wires welded into a 2" square mesh and securely attached to a specially designed fibrous paper backing. It is not an asbestos product.

Building

The amount of construction undertaken during 1937 reached a six-year peak. Total contracts awarded in the 37 eastern states attained the highest dollar value for any year since 1931, according to T. S. Holdon, vice-president of F. W. Dodge Corporation. In residential building, it is necessary to turn back to 1930 to find a total which can match the 1937 volume.

Contracts awarded in the 37 eastern states for 1937 amounted to $2,913,060,000. This total represents an increase of 9 per cent over the 1936 total of $2,675,296,000.

All classes of construction shared in the improved conditions during 1937 with the exception of public works. In the case of residential building, the 1937 total of $905,292,800 recorded a gain of 13 per cent over last year. This was the highest annual total for any year since 1930. Non-residential building amounted to $1,148,172,600 for 1937, an increase of 20 per cent over 1936. Public utility contracts totaled $277,730,100, a gain of 34 per cent over last year. For public works the 1937 total of $581,864,500 represented a 19 per cent loss from the 1936 volume.

In reviewing the 1937 construction program, Mr. Holdon pointed out that privately-financed work continued the upward

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trend which started in 1935 by recording a percentage gain of 31 per cent over last year. In only two months out of the year did the 1937 totals fail to exceed the 1936 totals for corresponding months. On the other hand, publicly-financed construction declined 14 per cent from last year.

Mr. Holdon also pointed to significant gains in contemplated residential building which appeared in the December record. An increase of 28 per cent over November was recorded in the volume of new planned work of the residential type. This is the largest gain for any major class reported for the month. This favorable record did not include any of the 35 large-scale housing developments to cost approximately $119,000,000 for which working plans are now in progress.

The December 1937 contract record for the states totaled $209,450,600 of which $43,479,500 was for residential, $101,210,300 for non-residential, $46,474,800 for public works and $18,286,000 for public utilities.

$ 1.00 for an Idea

Have you worked out any new or unique way to get prospects for insulation, asbestos roofing or siding, or other asbestos materials? If you will tell us about them, we will pay $1.00 for each and every idea accepted by us and published.

Just as an example—in a recent issue of the American Roofer, is an article "Chase Those Engines" and this suggests that wherever there is a fire there is quite likely to be need of a new roof.

Owners of buildings which have suffered from fire make good prospects for asbestos shingles or other asbestos-cement products, possibly also for insulation or other asbestos materials, and following such leads results in orders.

Fire Protection. "Aircraft Carriers must have a great many installations of various kinds not found on other warships. Most important of these are the hangars. As they are usually filled with gasoline vapors they are spaces of considerable danger. Inasmuch as transverse bulkheads are out of the question, the subdivision of the hangars is obtained by means of steel screens moved by electric motors, and by thick asbestos curtains." Quoted from article by W. T. Robinson in the Scientific American.

Opportunity. The Suburban Publishing Co., 43 N. Broad St., Ridgewood, N. J., is publishing a monthly magazine the circulation of which may develop into possibly 50,000 copies per month, the magazine to be distributed by realtors to clients and prospects. They desire articles concerning improvements for homes and home building, with cuts or photographs. Perhaps manufacturers of asbestos building materials, such as asbestos-cement shingles and siding, insulation, etc., may be interested.

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Africa (Rhodesia)
(Statistics by Rhodesia Chamber of Mines)

	November 1937 Tons (2000 lbs.)	Value £	s	d
Bulawayo District				
Nil Desperandum (Afr. Asb. Mng. Co. Ltd.)	682.00	7,965	9	3
Pangani (Pangani Tributors)	91.00	557	2	1
Shabanie (Rho. & Gen. Asb.) Corp. Ltd.)	3,373.58	50,688	2	10
Waverly (H. J. Filmer)	8.11	44	2	8
Victoria District				
D. S. O. (Mashaba Rho. Asb. Co. Ltd.)	37.00	370	0	0
Gath's & King (Rho. & Gen. Asb. Corp. Ltd.)	754.88	10,174	1	2
Rosey Cross (Mashaba Rho. Asb. Co. Ltd.)	3.50	68	0	0
	4,950.07	£69,866	18	0
November 1936	*4,801.40*	*£69,735*	*12*	*0*

Africa (Union of South)
(Statistics published by Dept. of Mines & Industries of U. of S. A.)

	Oct. 1936 Tons (2000 lbs.)	Oct. 1937 Tons (2000 lbs.)
Transvaal		
Amosite	466.92	659.68
Blue	42.70	27.49
Chrysotile	1,072.00	1,566.54
Cape		
Blue	293.36	463.69
	1,874.98	2,717.40

White Top. Where a white, light-reflecting surface is desired, such as on sawtoothed roofs, a White Top Asbestos Roofing is often used. It is made of plies of asphalt impregnated asbestos felt, cemented together with asphalt, and with a top ply of white unimpregnated asbestos felt. It is supplied in three weights, standard, heavy and extra heavy, in weights ranging from 55 to 83 pounds per square.

Japan. A list of War Materials used by Japan, gives asbestos as being used for obturators and in lagging for machinery.

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Imports into U. S. A.

(Figures published by U. S. Dept. of Commerce)

Unmanufactured Asbestos Goods:

	Nov. 1936 Tons (2240 lbs.)	Nov. 1937 Tons (2240 lbs.)
Africa (Br. S.)	589	1,016[1]
Canada	21,733	24,665
Cyprus, Malta & Gozo	...	1,866
Italy	152	356
Soviet Russia	5	766
United Kingdom	16	46
	22,495	28,715
Value	*$780,740*	*$1,144,028*

1 501 tons of this is Blue or Crocidolite Asbestos.

Tabulation of Crudes and Fibres (by Grades)

Crude (Africa—Br. S.)	589	1,016
Crude (Canada)	164	184
Crude (United Kingdom)	16	46
Crude (Soviet Russia)	5	...
Mill Fibre (Canada)	7,209	11,179
Mill Fibre (Soviet Russia)	...	766
Lower Grades (Canada)	14,360	13,302
Lower Grades (Cyprus, etc).	...	1,866
Lower Grades (Italy)	152	356
	22,495	28,715

Manufactured Asbestos Goods:

	Nov. 1936 Pounds	Nov. 1937 Pounds
Austria (Packing)	2,099	1,203
Belgium (Shingles)	224,351	437,399
Canada (Packing)	...	30
Germany (Packing)	692	50
United Kingdom (Yarn)	3,266	1,967
United Kingdom (Packing)	...	3,142
United Kingdom (Woven Fabrics)	...	1,207
	230,408	444,098
Value	*$ 5,536*	*$ 9,423*

There was also imported during November 1937 $76 worth of unclassified materials from Germany.

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Exports from U. S. A.

Exports of Unmanufactured Asbestos during November 1937 amounted to 213 tons, valued at $28,478; compared with 31 tons, valued at $4,530, exported in November 1936.

Exports of Manufactured Asbestos Goods:

	November 1936		November 1937	
	Quantity	Value	Quantity	Value
Paper, Mlbd. & Rlbd. lbs.	75,973	$5,874	339,718	$19,837
Pipe Covg. & Cement lbs.	241,803	11,594	232,492	12,482
Textiles & Yarn lbs.	107,236	52,366	5,847	1,682
Packing lbs.	(inc. with Text. & Yarn)		130,255	55,277
Brake Lining—				
Molded & Semi-molded	.....	47,380	.....	52,771
Not Molded lin. ft.	142,539	23,099	54,633	11,632
Clutch Facings units	21,700	7,225	.....	.....
Molded & Semi-molded units	(above)		13,029	5,338
Woven units	(above)		11,233	2,402
Magnesia & Mfrs. of lbs.	209,339	14,888	245,691	11,654
Asbestos Roofing sqs.	3,912	13,125	5,684	32,830
Other Manufactures lbs.	287,003	20,359	224,958	22,607

Exports of Raw Asbestos from Canada

(Figures by Dominion Bureau of Statistics)

	November 1936		November 1937	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
United Kingdom	1,396	$ 90,055	2,406	$ 160,545
United States	7,853	383,250	9,036	445,139
Australia	218	10,762	462	22,913
British India	40	2,000	.....	.....
Argentina	17	850	.....	.....
Belgium	180	7,950	771	53,830
Columbia	1	100	.....	.....
France	200	19,675	130	16,850
Germany	1,626	124,045	3,812	281,582
Italy	9	4,400	339	29,169
Japan	4,822	201,613	3,730	138,025
Netherlands	11	545	33	1,122
Poland	.....	.....	22	2,860
	16,373	$845,245	20,741	$1,152,035

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Exports of Raw Asbestos From Canada (Cont'd)

Sand and Waste

United Kingdom	720	13,961	933	21,811
United States	15,043	244,867	13,245	211,974
Australia	.....	.....	3	75
Argentina	11	242	15	165
Belgium	132	1,884	550	9,763
Cuba	30	240	.....	.....
France	180	2,685	50	1,100
Germany	442	8,487	2,825	50,630
Japan	30	575	.....	.....
Netherlands	44	847	.....	.....
Poland	66	1,363	55	1,210
Sweden	.....	.....	39	424
	16,698	$275,151	17,715	$ 297,152
Grand Total	*33,071*	*$1,120,396*	*38,456*	*$1,449,187*

Imports and Exports by England

Imports of Raw Material

	November 1936[1] Tons (2240 lbs.)	Value	November 1937[1] Tons (2240 lbs.)	Value
From Africa (Rhodesia)	1,598	£39,586	1,926	£48,846
From Africa (Union of S.)	1,265	17,712	1,584	26,927
From Austria	.....	.....	.....	2
From Australia	2	33	3	60
From Canada	1,679	18,602	2,069	27,714
From Cyprus	51	808	45	250
From Finland	.....	.....	10	69
From Germany	.....	1	1	49
From Italy	.....	.....	9	672
From Netherlands	.....	.....	140	6,250
From Soviet Russia	143	2,037	406	5,934
From U. S. of America	.....	90	.....	.....
	4,738	£78,869	6,193	£116,773

1 This tabulation was given in our January number in more condensed form, the detailed figures not having been received at that time.

	December 1936 Tons (2240 lbs.)	Value	December 1937 Tons (2240 lbs.)	Value
From Africa (Rhodesia)	1,999	£50,999	2,031	£48,926
Africa (U. of South)	857	11,444	1,406	27,258
Other British Countries	1,629	23,190	1,920	37,124
Foreign Countries	308	5,646	24	997
	4,793	£91,279	5,381	£114,305

Imports of Asbestos Manufactures:

December 1937 ..... 38,643 cwts. valued at £12,102

December 1936 ..... 21,828 cwts. valued at 8,175

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Exports of Asbestos Manufactures (by England)

	December 1936		December 1937	
	Cwts.	Value	Cwts.	Value
To Irish Free State	3,668	£ 3,874	2,508	£ 3,058
To British India	2,786	7,879	12,578	14,847
To Australia	948	5,812	820	5,698
To Other British Countries	24,174	34,991	33,981	35,186
To Netherlands	840	3,893	1,087	4,567
To Belgium	892	3,855	312	2,845
To France	212	2,774	293	2,345
To Italy	191	2,974	149	1,135
To Other Foreign Countries	10,090	22,103	15,276	32,725
	43,801	£88,155	67,004	£102,406

Exports of Raw Asbestos from South Africa

	Sept. 1936		Sept. 1937	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
Australia	244	£ 3,142	149	£ 1,837
Belgium	79	975	59	1,229
France	84	1,624	64½	2,002
Germany	41	792	77	2,311
India	23	139	86	528
Japan	169	1,863	156	1,042
United Kingdom	1,566	23,184	2,156½	25,653
United States	98	1,932	24	581
Portugal	10	209	.....	.....
Sweden	3	70	.....	.....
	2,317	£33,930	2,772	£35,183

	Oct. 1936		Oct. 1937	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
Algeria	10	£ 188	.....	.....
Australia	224	2,810	184	£ 2,407
Belgium	45	338	60	1,060
Canada	15	217	26	421
Chili	.....	.....	30	373
France	156	2,619	118	2,450
Germany	146	3,737	270	6,926
Holland	2	119	70	708
India	75	454	43	263
Italy	.....	.....	42	854
Japan	166	1,749	65	553
Rhodesia (Southern)	.....	.....	1½	25
United Kingdom	1,428	15,930	989	14,739
United States	320	6,414	255	5,738
	2,587	£34,575	2,153½	£36,517

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NEWS OF THE INDUSTRY

BIRTHDAYS.

C. J. Sherer, Vice Pres. and Treasurer, Russell Manufacturing Co., Middletown, Conn., February 18.

Clarence E. Witherspoon, President, Asbestos Construction Co., Inc., New York City, February 20.

J. Albert Taylor, Vice Pres. and Secretary, Wallace & Gale Co., Baltimore, Md., February 24.

Roland C. Sprinkmann, Treasurer, Sprinkmann Sons Corp., Milwaukee, Wis., February 26.

A. S. Johnson, Managing Director Johnson's Co., Thetford Mines, P. Q., Canada, February 28.

Leonard Krez, Secretary, Paul J. Krez Co., Chicago, Ill., February 28.

W. A. Godfrey, formerly Secretary and Manager, Cape Asbestos Co., Limited, London, March 1.

J. P. O'Malley, O'Malley Brothers, Chicago, Ill., March 1.

D. P. Osterhout, Director, Keasbey & Mattison Co., Ambler, Pa., March 2.

Carl Bindman, Sales Manager, Johnson's Co., Thetford Mines, P. Q., Canada, March 7.

E. J. Wilson, President, Elwood J. Wilson, Inc., New York City, March 7.

P. M. Taft, President, P. M. Taft Asbestos Co., Holyoke, Mass., March 9.

A. B. Dougall, Asst. Secretary, Thermoid Rubber Co., Trenton, N. J., March 10.

Harry A. Kieselbach, General Manager Insulation Dept., Johns-Manville, New York City, March 14.

To all these gentlemen we extend congratulations and best wishes.

R. B. CRABBS has, effective January 19, resigned as an Officer and Director of the Philip Carey Mfg. Company and subsidiary companies, to accept the Presidency of The Kenilworth Mfg. Company, Kenilworth, N. J., a manufacturer of Asbestos-Cement siding units.

GERMAN OFFICIAL GAZETTE in an early January issue, announced that a series of new and stricter regulations concerning the production, purchase and storage of rubber and asbestos raw materials have been instituted. Asbestos may be used for manufacturing purposes only to the extent permitted. Anyone storing or using more than the permitted amount must report it to the Controlling Board.

ROGER Q. KYLE of Globe, Ariz., advises that he has struck a rich vein of Arizona asbestos, and the specimen he sends us would bear out his statement.

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UNITED STATES ASBESTOS DIVISION, of Manheim, Pa., announces a contest offering $5,000 in cash and other prizes for 50 words on the subject "Why Grey-Rock is the fastest growing line". The contest is not open to the public but is confined to all men who work with brakes, i. e., managers, foremen and mechanics of service stations, car dealers, brake stations, and fleet shops, in the United States and Canada. The contest began on February 1 and ends June 15. The first prize is $1,000; other prizes will vary from $500 to $5, in addition to which there will be "acknowledgment prizes". The judges will be well-known automotive men.

ASBESTCEMENT-INDUSTRIE "ASBESTONA" of Amersfoort, Holland (works at Harderwijk) have issued a series of small folders advertising various of their asbestos-cement products. Since they are printed in the Dutch language we regret our inability to read them.

MILLBOARD STANDARD. Three eighths inch asbestos millboard, in 42 in. x 48 in. sheets, has been admitted as a standard by the Division of Simplified Practice of the Bureau of Standards, U. S. Dept. of Commerce, this revision of Recommendation R-19-28 having been issued on December 15, 1937. The new number of the Recommendation is R-19-37.

CANADIAN ASBESTOS COMPANY of Montreal has recently issued a most attractive and useful catalog on Canasco Packings. It is bound in black and silver and contains data on the full line of Packings carried by the Company.

JOHNS-MANVILLE'S Stockholders News for January contains, among other things, a brief history of the company, and a ten year comparison of sales, operating costs, etc.

ROCKBESTOS PRODUCTS CORPORATION has opened (thru its Chicago Office) a branch at Room 612 Stephenson Bldg., Detroit, in charge of Carle Vande Bogart. Mr. Bogart was formerly connected with their New Haven Sales Office.

EMSCO ASBESTOS CO., of Downey, Calif., has recently completed their fiberizing mill located at Downey, capable of turning out approximately 600 tons per month of asbestos milled fibre. The primary mill is located at the mine at Globe, Ariz. They expect to offer all grades of asbestos from the shortest milled fibres up to and including No. 1 Crudes. See their advertisement on page 15 of this issue.

B. MARCUSE, President of Canadian Asbestos Co., desires to express thru the pages of "ASBESTOS", to his many friends in the Industry, his appreciation of their kindly inquiries while he was recently ill in the hospital.

ARTICLE. In the January 15th issue of The India Rubber Journal is an article "Rubber and Asbestos" which gives the gist of a discussion by G. F. Payne (British Belting and Asbestos Ltd.) at a meeting of the London and District Section of the Institution of the Rubber Industry held on January 10th. Mr. Payne's remarks dealt particularly with jointings and packings.

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• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

MILLBOARD **YARNS**
ROVINGS **POWDER** **CLOTHS**
PROCESSED FIBRES
Unexcelled for use in
ASBESTOS CEMENT PIPES

• AMOSITE ASBESTOS

This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% Magnesia Insulation

The CAPE ASBESTOS CO. Limited
Morley House, 28-30 Holborn Viaduct, London, E.C.1.
FACTORY, BARKING, ESSEX

United States Sales Agent:
ARNOLD W. KOEHLER
369 LEXINGTON AVE. **NEW YORK CITY**

TELEPHONE—CALEDONIA 5-4044

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THE TUNNEL ASBESTOS CEMENT COMPANY has concluded an agreement with Turners Asbestos Cement Company, a Turner & Newall subsidiary, whereby the latter will exclusively market all Tunnel products. As a result of this agreement, the selling organization of Tunnel Asbestos has been discontinued and the company's activities will henceforth be devoted solely to the manufacturing side of the business.

Tunnel Asbestos Cement Co. is a subsidiary of Tunnel Portland Cement Co., and was registered in November 1935, made a public company in February 1936. It acquired an asbestos works at West Thurrock, Essex, England, from the parent company and the assets of the Cyprus and General Asbestos Co. It has an issued capital of £330,000. N. M. Jensen is chairman.

KEASBEY & MATTISON CO., announce the appointment of the American Cyanamid & Chemical Corporation, New York, as distributors in the eastern United States for its magnesium carbonate, oxide and calcined magnesia. American Cyanamid is one of the principal producers and distributors of chemicals in the country, their products covering a large field of industrial and consumer needs. Cyanamid's widely distributed sales organization and extensive warehousing facilities, affording manufacturers a prompt and complete servicing of their needs, were cited by Keasbey & Mattison officials as reasons for the move.

THE CELOTEX CORPORATION expects to begin operations in March in its new plant in the Stonebridge Part section of London. Celotex insulating board will be manufactured in this plant. The name of its English subsidiary is Celotex, Limited of which Bror G. Dahlberg is Chairman and G. S. Waddington, Managing Director.

THE AMERICAN ROOFER talks about Asbestos Siding in an article in the February 1938 number. The article is entitled "Old Into New".

THE CAPE ASBESTOS CO., London, England, has secured the contract for asbestos filter pads fitted to the gas masks now being produced under the orders of the British Home Office. As it is the Government's intention eventually to manufacture a sufficient number of gas masks to protect the entire population of the United Kingdom, the importance of this contract, and its size, is easily recognized.

JOHNS-MANVILLE announces a new brochure on "Industrial Friction Materials", in which they have gathered together comprehensive data on the complete lines of industrial brake linings and blocks and clutch facing manufactured by this firm for all types of industrial equipment. The most important feature of this brochure is a chart which simplifies the selection of the most suitable friction material for any specified service. Copies of the brochure are available upon request to Johns-Manville. Ask for Form FM-7A.

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VERMONT ASBESTOS CORPORATION report that 90 men, ordinarily laid off in mid-winter, were provided with continuous employment during December and January at Eden, Vt., in the asbestos mining and milling operations of the company. Three reasons were assigned by W. B. Harris, President of the Corporation for the increased activity this winter—sustained demand for the type of chrysotile fibre produced at Eden, an unusually open winter in Vermont which facilitated quarrying operations, and the installation last summer of greatly increased wet rock storage facilities which made inside milling operations possible without regard to the weather. The fibre produced by the Vermont Asbestos Corporation is used largely in the manufacture of building products, including asbestos-cement shingles and sidings, pipe coverings and molded products.

PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C.

Flexible Clutch Facing. No. 2,097,710. Granted on November 2 to Albert Whitelaw, Passaic, N. J., and David J. Bonawit, Glen Park, N. J., assignors to Raybestos-Manhattan, Inc., Passaic, N. J. Application Jan. 22, 1935. Serial No. 2,938.

A facing adapted to be secured to a driven clutch plate of a clutch of the disc type, comprising an annular facing having a plurality of elongated apertures radially disposed about said facing to impart resiliency to the facing, said apertures extending from substantially the internal and outer peripheries of said annular facing to substantially the mean circumference thereof.

Friction Material. No. 2,098,078. Granted on November 2 to William L. White, Clifton, N. J., assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Application October 7, 1933. Serial No. 692,619.

Friction material comprising a hard, dense mass of asbestos fibres and an organic binder cured to provide the desired coefficient of friction, having distributed therethru a relatively small amount of finely divided particles of vulcanized soft rubber having the property of melting to lubricate the working surface of said friction material at relatively high temperatures and of such a character that they will not melt to lubricate the working surface of said friction material at relatively low temperatures.

Heat Insulation. No. 2,098,193. Granted on November 2 to Carl Georg Munters, Stockholm, Sweden, assignor to Aktiebolaget Termisk Isolation, Stockholm, Sweden, a corporation of Sweden. Application March 1, 1934. Serial No. 713,622. In Sweden March 1, 1933.

Heat insulation comprising a plurality of sheets of paper forming intervening gas layers, the limits of thickness of which in the direction of heat flow are between .1 and 1.2 millimeters and whose average thickness is substantially .5 millimeters plus

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or minus a thickness sufficient to decrease the heat transfer efficiency as compared to cork below 80%.

Asbestos Filled Drier Felt. No. 2,098,993. Granted on November 16, to William A. Barrell, North Andover, Mass. ,assignor to Lawrence Duck Company, Lawrence, Mass., a corporation of Massachusetts. Application August 15, 1935. Serial No. 36,291.

A drier felt comprising two plies of interwoven nonasbestos warp and asbestos filling, and binder warp strands crossing picks of the filling alternately in both plies, the asbestos of the filling being exposed between adjacent warp strands on both faces of both plies and parts of the filling strands in both plies being in contact forming substantially continuous absorbent wicks through both plies.

Asbestos Faced Drier Felt. No. 2,098,994. Granted on No-November 16, to William A. Barrell, North Andover, Mass., assignor to Lawrence Duck Co., Lawrence, Mass. Application August 15, 1935. Serial No. 36,292.

An asbestos-faced drier felt consisting of a woven body structure of non-asbestos fiber and cover strands consisting of a central body of loosely twisted asbestos fiber and an enclosing cage of fine threads interconnected with an open mesh, said cover strands extending side by side.

Asbestos Textile Yarn. No. 2,098,995. Granted on November 16 to William A. Barrell, North Andover, Mass. Assignor to Lawrence Duck Co., Lawrence, Mass. Application July 8, 1936. Serial No. 89,514.

A composite asbestos yarn adapted for weaving, consisting of an elongated body of asbestos fibres and a confining cage of strands smaller in diameter than the body, extending around the body in two sets of helices of relatively opposite pitch, interbraided together and spaced apart so as to leave openings of substantial width but of smaller dimensions than the length of asbestos fibres.

Clutch Facings, Brake Linings and the like. No. 2,099,132. Granted on November 16 to Stuart Parmelee Miller, Scarsdale, N. Y., assignor to the Barrett Co., New York City. Application March 24, 1936. Serial No. 70,715.

A process of making clutch facings, brake linings and like products from porous heat resistant material capable of providing the body and strength necessary to resist abrasion and heat deterioration under conditions to which said products may be subjected in use, which comprises saturating the said porous heat resistant material under vacuum with a heat decomposable bituminous saturant containing substantially more than 10% free carbon to uniformly impregnate said material and substantially completely fill the pores therein with a free carbon substantially uniformly distributed in said pores and then baking the impregnated material at a temperature and for a period of time sufficient to cause partial decomposition of the saturant to produce a hard, coke-like substance, filling the pores of said mater-

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ial whereby a hard, dense product containing from 26 to 28% by weight of such coke-like substance and resistant to abrasion and heat deterioration results.

Packing Composition. No. 2,099,241. Granted on November 16 to Hugh T. Stewart, Palmyra, N. Y., assignor to Garlock Packing Co., Palmyra, N. Y. Application September 26, 1935. Serial No. 42,281.

A packing composition consisting of an intimate mixture of asbestos graphite, powdered aluminum, lubricating oil, and dispersed compounded polychloroprene.

Packing Composition. No. 2,099,242. Granted on November 16 to Hugh T. Stewart, Palmyra, N. Y., assignor to Garlock Packing Co., Palmyra, N. Y. Application Sept. 26, 1935. Serial No. 42,282.

A packing material for industrial use, having the foliowing approximate composition:

	Per cent
Vulcanized binding material	7.0—12.5
Lubricating oil	5.0—10.0
Asbestos fibres	25.0—37.0
Powdered aluminum	14.5—18.5
Powdered graphite	28.0—44.0

Thermal Insulation. No. 2,099,740. Granted on November 23 to Henry A. Kieselbach, Montclair, N. J. Assignor to Johns-Manville Corporation, New York City. Application February 23, 1935. Serial No. 7,775.

An assembly comprising a heated tank to be insulated, a layer of thermal insulation disposed therearound, and means for indicating by finger touch the approximate temperature of the tank, the said means comprising an element in contact with the tank, an element exposed on the outside of the insulation and constituting a readily accessible tangible temperature indicator and a union member of area of cross section very small in proportion to the area of either of the said two elements, connecting the said elements and the said elements and union member being each of high specific thermal conductance of the order of that of metals.

Airduct. No. 2,099,756. Granted on November 23 to William R. Seigle, Mamaroneck, New York. Assignor to Johns-Manville Corporation. Application October 29, 1935. Serial No. 47,217.

A duct for moisture containing air comprising fire resistant fibres felted into a substantially non-resonant sheet material, constituting the major part of the wall of the duct and a moistureproof friction reducing agent coated over the inner surface of the wall and preventing frictional contact between the said material and the air in the duct.

Woven Brake Lining Yarn. No. 2,100,347. Granted on November 30 to William Nanfeldt, Clifton, N. J., assignor to Worldbestos Corporation, Paterson, N. J.

Described as a yarn suitable for brake lining comprising asbestos and cotton fibres matted together and twisted with a

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reinforcing filament, and a powdered mixture containing iron oxide coating said fibres.

Insulating Construction. No. 2,100,624. Granted on November 30 to Charles J. Beckwith, Brooklyn, N. Y., assignor to Keasbey & Mattison Company, Ambler, Pa. Application Oct. 30, 1935. Serial No. 47,358.

Means for heat insulating a partition supported by a channel beam. Further description upon request.

Latex Stabilization. No. 2,101,089. Granted on December 7 to Izador J. Novak, Bridgeport, Conn., assignor to Raybestos-Manhattan, Inc., Bridgeport, Conn. Application November 21, 1934. Serial No. 754,124.

A liquid system for impregnating fibrous materials, comprising, rubber latex, a stabilizing agent for said latex including essentially an alkali metal salt of a polybasic weak acid, and an anti-foaming agent compatible with said system.

Impregnated Asbestos Product. No. 2,101,449. Granted on December 7 to Robert E. Parry, North Plainfield, N. J., assignor to Johns-Manville Corporation, New York. Application September 27, 1935. Serial No. 42,466.

An article of manufacture comprising reenforced strands of asbestos fibres woven into a cloth and a fireproof coloring composition coating the exterior surfaces of the fibres, penetrating interstices within the individual fibres and closing the mesh spaces between the several strands, the said composition including a base medium selected from the group consisting of a vinyl resin and a chlorinated rubber, each of high chlorine content, a plasticizer for the base medium and a pigmentary substance distributed substantially uniformly throughout the said medium, the proportion of the pigmentary substance being of the order of 30 to 40 parts by weight to 8 to 15 parts of the said medium, coloring composition being in the condition of having been deposited in situ from a mixture of pasty consistency.

Metallized Fibrous Packing. No. 2,101,518. Granted on December 7 to Hugh T. Stewart, Palmyra, N. Y., assignor to Garlock Packing Co., Palmyra. Application September 26, 1935. Serial No. 42,283.

A braided or woven packing material consisting of yarns, the individual strands of which have a coating of powdered metal adhesively bonded thereon prior to the braiding or weaving of the strands into a body of definite dimensions.

Clutch Plate. No. 2,102,279. Granted on December 14 to George E. Pope, Stratford, Conn., assignor to Raybestos-Manhattan, Inc., Bridgeport, Conn. Application February 24, 1937. Serial No. 127,365. Description upon request.

Oil Filter. No. 2,103,434. Granted on December 28 to Robert H. Pennebaker, Baton Rouge, La. Application September 6, 1935. Serial No. 39,487.

A filter unit including a mass of packed asbestos, and an electrical heating winding embedded in said packed asbestos and terminating in electrical terminals at opposite ends of said filter unit.

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AUTOMOBILE PRODUCTION

Automobile Production for 1937 totalled 5,016,565 (4,809,565 in the United States and 207,000 in Canada).

Compare this with previous years:

1928	4,630,000	1933	2,025,125
1929	5,621,715	1934	2,895,629
1930	3,510,178	1935	4,119,811
1931	2,472,359	1936	4,616,857
1932	1,431,494	1937	5,016,565

December 1937 production was 326,234 in the United States and 20,652 in Canada, a total of 346,886; compared with a production in the United States in December 1936 of 498,710 and in Canada 20,248—a total of 518,958.

ASBESTOS STOCK QUOTATIONS

(These figures compiled from the Commercial and Financial Chronicle. No guarantee as to their correctness.)

		January 1938		
	Par	Low	High	Last
Asbestos Corpn. (Com.)	np	53	62	57
Celotex (Com.)	np	19⅞	25½	20⅞
Celotex (5% Pfd.)	100	51	63	55½
Certainteed (Com.)	1	3⅜	8⅜	6⅞
Certainteed (6% prior pfd.)	100	22¾	30¾	27
Flintkote (Com.)	np	14⅜	17¾	15⅞
Johns-Manville (Com.)	np	66½	86	69
Johns-Manville (Pfd.)	100	120	124½	123
Raybestos-Manhattan (Com.)	np	19½	26	21
Ruberoid (Com.)	np	17⅝	23¾	18
Thermoid	1	3	4½	3⅝
U. S. Gypsum (Com.)	20	57	72	57½
U. S. Gypsum (Pfd.)	100	164	167	165

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THIS and THAT

Filters. Bulletin No. 500-3 describing the "Norblo" Square Type Air Filter, has just been issued by The Northern Blower Company, West 65th St., south of Denison, Cleveland, O. These filters are automatic and designed for continuous service. **Reprint**

Fair. The historic Leipzig Trade Fair will hold its 1,979th session from March 6th to 14th. To accommodate new exhibits two halls, with over 200,000 square feet of display space, will be added to the 51 exhibition halls heretofore in use. The Spring Fair will include some 10,000 exhibits of every industrial and art product assembled from twenty-one countries including the United States.

Chemical Meeting. The Annual Meeting of all sections of the Society of Chemical Industry will be held in Ottawa, Canada, June 20-22, 1938. A program of events extending over the period June 17 to July 1 has been arranged for the visitors from abroad. The American Section will entertain the members of the parent Society at Niagara Falls, N. Y., on June 25, 26 and 27.

Coincidence. There exists at St Elmo, Colo., the Philip Carey Mining and Milling Co., P. L. Carey being president and general manager. This company we find has no connection whatever with the Philip Carey Mfg. Company of Lockland, Cincinnati, O., manufacturers of asbestos products; in fact officials of the latter company never heard of the former one until a week or so ago.

Research. There are 1600 Research Laboratories in the United States, this number not including federal, state or municipal government laboratories nor the 186 college laboratories conducted for instructional purposes and research work.

Wire Manual. A new kind of illustrated wire manual — U. S. Royal Cords and Cables —designed to provide electrical engineers, contractors, purchasing agents and others concerned with standard construction, with wire and cable data and specifications, has been announced by the Wire Division, United States Rubber Products, Inc.

A. S. T. M. 1938 Regional Meeting will be held March 9, at the Seneca Hotel, Rochester N. Y. Technical Feature — Plastics.

Committee Week from March 7 to 11 inclusive at the same hotel.

1938 (Forty-first) Annual Meeting from June 27 to July 1 inclusive, Chalfonte-Haddon Hall, Atlantic City, N. J.

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ASBESTOS

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Minimum iron for electrical purposes.
Non-scoring rod and valve packing.
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