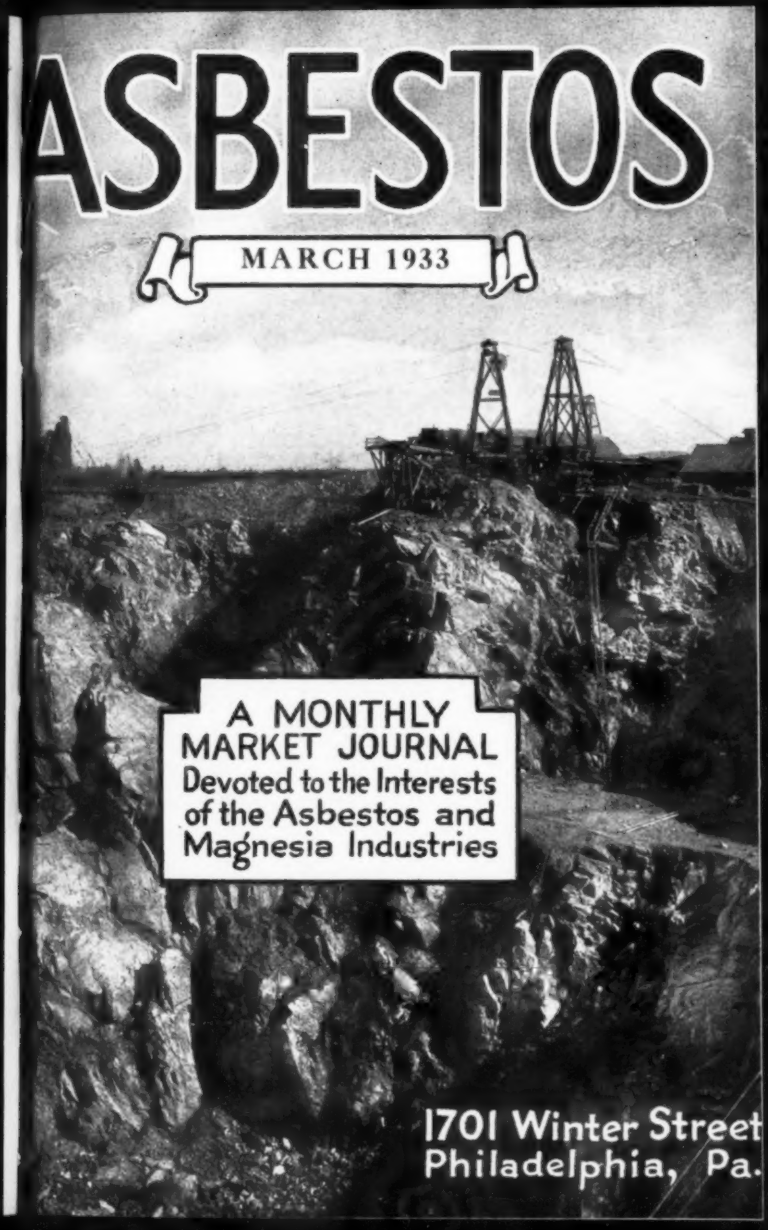
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MARCH 1933



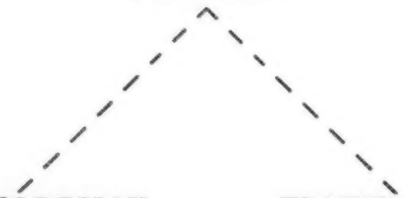
A MONTHLY MARKET JOURNAL
Devoted to the Interests of the Asbestos and Magnesia Industries

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... ASBESTOS ...

A MONTHLY MARKET JOURNAL
DEVOTED TO THE INTERESTS OF THE
ASBESTOS AND MAGNESIA INDUSTRIES

A. S. ROSSITER - - EDITOR

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Grading and Packing

(The Fifth and last in the Series of Articles by W. A. RuKeyser, B. Sc., E. M., Consulting Engineer, New York City, on The Mining and Milling of Asbestos.)

Grading.

Since asbestos fibre is best transported and lifted by means of air suction, the last series of collectors may be so located in the mill as to permit discharge by gravity direct into the grading trommels. Asbestos fibre will flow only at steep angles, and has a tremendous tendency to "hang up," particularly if any irregularities in the chute or launder are present.

Once the material starts to "hang," it will build up until sufficient weight collects to clear the stoppage, whereupon the asbestos will come down with a rush and will pack as tightly as snow falling off a roof. This consideration must be kept constantly in mind in the designing of chutes and piping, and of discharges of the collectors. It is far preferable to have asbestos flowing thru chutes which are open on one side for constant inspection, so should there be a hang-up at any time the mill operators can free same before any serious damage is done. For the same reason the use of hoppers or bins are not recommended in the asbestos fibre circuit. This same factor controls the packing of asbestos after it has been suitably graded.

The modern tendency in grading asbestos in most mills is to do so after the thoro cleaning out of all impurities. In some recent designs a final cleaning by vibratory screens has been planned for each grade of fibre after the material has been graded. One plant takes the asbestos from the first series of shaking screens, then grades it immediately, after which each grade is separately cleaned by using a second series of tables, rotary dusters, then finally sucking each grade to its own collector running same over vibrating screens before bagging.

In the newer method of grading using the small multiple graders (with one trommel for each grade) the

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uppermost trommel takes the discharge from the collectors and makes the longest product first as an oversize, all the shorter grades go into the second trommel as "throughs" and herein the second longest fibre is removed oversize. This operation is repeated using as many trommels as there are grades, the undersize from the lowest and last of this series of trommels being the rejected "drops" sent to waste, or may be the shortest commercial grade desired. The material which goes thru the last and lowest trommel of the series may comprise additional dust and grit not removed prior to the grading operations. This method of grading appears to have the advantage of giving the fibre additional cleaning during the grading operation and instead of the dust and grit remaining with the oversize (that is, the longest material which was removed last in the older process) this remaining grit and dust may now be screened out. The newer



Photo Courtesy B. Marcuse, Canadian Asbestos Co., Montreal.

Series of Trommels

method of multiple graders thus tends to produce a cleaner and better graded product. These advantages more than outweigh the slight additional capital investment required or the additional head room necessitated by using the multiple series of graders. The photo above shows such a series of trommels, the rotary screen itself not revolving; the internal "paddles" (of wood) rotating at 600 to 700 r. p. m.

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Packing.

From the graders the material may fall by gravity onto the floor of the packing department. The packing into bags of each grade continues to be done for the most part by hand, or if by machines, these at best can only be called semi-mechanical. It is not because automatic bagging machines will not handle asbestos fibre that they have not found application in this industry. It is rather because such bagging machines cannot be satisfactorily fed. Because of the tendency of asbestos fibre to "pack" and "hang up," it may be found satisfactory to allow the fibre to fall in loose piles on the floor of suitable bins—the floor and walls of the bins being covered with light plate to permit ease of shovelling and to prevent any possible contamination with wood, chips or splinters.

The asbestos is packed into bags usually containing 100 lbs. net, the bags being filled, sewn and suitably marked by hand.

Tests are made often, samples being taken as frequently as every fifteen minutes from the discharge of each grade of fibre, these samples being tested on the standard Canadian testing machine. These tests constitute the control of the products of mill operation. In asbestos mills, due to changes in the nature of the rock, the percentage of fibre which varies according to the nature of the rock from day to day (even from hour to hour) and to a host of other factors, adjustments must be made continually. Suction hoods must be raised or lowered; tables may have to be by-passed; screens changed on tables and graders; openings of the crushers varied, fans speeded up or slowed down, etc. Another reason why asbestos milling may better be called an art than a science, and requires thoroly trained, skilled operators.

Furthermore, the grading itself is one of the most important phases of the work. A skillful operator will increase his profits by throwing certain material from one grade to another; possibly by eliminating certain grades entirely, or possibly, on the other hand, by producing certain grades for which a market may be created. It may

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be possible to change the figures from red to black by merely changing the grading in the mill.

The best mechanical practice of modern metal concentrators is today being applied in the design of asbestos mills. Thus there is a tendency to eliminate shafting and countershafting entirely wherever possible. Individual unit drive with direct connected motors wherever feasible has been adopted.

Interlocking electrical control finds the same application in asbestos milling plants as in other modern large concentrator plants.

The modern asbestos milling plant contains all possible devices for the safety of the workmen, including enclosed drives, dust elimination by the enclosing of crushers, screens and so on, as far as practicable; also all possible electrical and mechanical safety devices.

The large asbestos mill is perhaps best designed in a series of two or more units, so that maximum flexibility of operation both as to capacity and continuity results.

In conclusion it must again be stressed that asbestos deposits differ so greatly, not only thruout the world, but even one deposit from another in any district, that each becomes a problem in itself, which must be handled by the experienced asbestos engineer. The period is past when mills were built without thought as to the geology of the deposit (oft-times plants being placed on the richest portion of the deposit or waste dumps so located that they had to be removed in later years) or when plants were built without previous testing of the ores to be run, or sufficient previous study given to the practicability of the process.

Today the asbestos industry is following the best dictates of concentration plants in general. Testing of the material to be treated is not only being done previous to the designing of a plant—in well equipped laboratories by experienced engineers—but pilot mills, operating on a commercial or semi-commercial basis, are being first erected to prove the adaptability of the design decided upon.

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to

FINISHED PRODUCT

Johns-Manville carries on the entire manufacturing process of 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.

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Through constant research in the J-M Laboratories, scores of other items have been developed, important to the economic and physical welfare of people throughout the country.

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How Can I Help Bring Things Back to Normalcy?

By C. J. Stover

For a few cents one can purchase a little volume "A Fortune to Share." If any man can read it without immense personal and social benefit, I have yet to meet him.

Out of a job, with a wife and family, no money—this man, in sheer desperation, adopts the philosophy of Christ, wholly, and gives what he has to those less fortunate than himself.

The results are amazing and the entire story is susceptible to complete proof.

Nothing religious, nor "churchy", — just a simple, true story.

Watching business from a sideline seat, but yet close enough to see the finest details of the game, play by play, I am entirely convinced that greed, spelled GREED, is the fundamental cause of most of our troubles.

The terrible urge to *get*, to *have* and to *keep!*

Yes, there are some innocent sufferers but they are outnumbered many times, by those of us who were improvident, and greedy.

I believe that the thing which will most surely and quickly bring us back to normalcy is a full realization by each one of us, of our own individual responsibility for and contribution to, the sorry state in which we find ourselves.

I was reaching for the moon — were you?

I contributed little, if anything, to the cause of good government — did you?

I neglected many of the more desirable things in life to pursue the elusive dollar — did you?

I was quite considerable of a darn fool — were you?

In the Market for Large or Small Quantities of
Metallic Yarn Waste—AsbestosTextile Waste — Scrap Cloth
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THE BEST IN ASBESTOS

K&M

NEW merchandising plans, new packages, improved products, yet the same basic materials that have kept Keasbey & Mattison Company in the limelight for over half a century!

Many changes have been seen at K. & M. in recent months — improvements in merchandising, new products to meet new conditions arising in the industry.

But *fundamentally* K. & M. materials are based on the same premier grades of Bell Mines Asbestos Fibre from our own mines, prepared by proved processes and accepted for years as standard. We have guarded against lowering standards and weakening K. & M. quality. Each change has been an improvement — yet prices are keyed to the times.

For heat insulation, fireproof building materials, gaskets, textiles, automotive brake linings or other asbestos products, consult K. & M. A few territories are still available for distributorship.

Keasbey & Mattison Company

AMBLER, - - PENNA.

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Twenty Years or More

More and more interest is being taken in our list of those who have been in the Asbestos Industry twenty years or more, and we will continue to publish such names just as long as we receive them. Below are the names received this month:

	Years
Fred Schierloh, Manager, Schierloh Sales Co., Lockland, Ohio	24
H. Becker of the firm of Becker & Haag, Berlin, Germany	31
George L. Hammons, President United States Asbestos Co. of Illinois, Chicago, Ill.	35
Stewart Dickson, President Stewart Dickson & Co., Inc., New York City.	37
Charles Uhr, President, Standard Asbestos Covering Co., Inc., Boston, Mass.	42

The Canadian Asbestos Co., of Montreal, P. Q., Canada, writes us that 90% of their employees have never held another job except with their firm and have been with them anywhere from 20 to 30 years. We would like to have their names, and would be glad to publish them, no matter how long the list.

I didn't think that you would get a rise out of me regarding your two columns, "Birthdays", and "Twenty Years or More", but doggone it, you are making your little magazine so darned interesting that I can not stay "put."

I was 60 years young on January 28th, and have just passed a most rigid physical examination with flying colors. Doctor predicted 40 years more of active service for me,—can you beat it? But then I expect to die with my boots on, as I have no use for a loafer, young or old.

I started 24 years ago in the asbestos game with headquarters at Springfield, Ill. Since then I have travelled practically over the entire United States and Canada in the interest of Asbestos and Roofing products.

In addition to doing contract work in Asbestos covering and roofing, we are called upon occasionally as Consultant with Architects and Engineers on difficult in-

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JOHNSON'S COMPANY

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Head Office

Thetford Mines, P. Q., Canada

Mines

Thetford, P. Q.
Black Lake, P. Q.

New Mill at Thetford Mines now in operation. Shall be glad to submit samples of new grading upon request.

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ASBEST-UND ERZIMPORT
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ALSTERDAM 7 HAMBURG 1

Agents for Great Britain

A. A. BRAZIER & CO.
Bluefries House, 122 Minories
LONDON E. C. 3, ENGLAND

Agents for Japan

S. SAITO & CO.
5th Floor Marunouchi Bldg. TOKYO

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sulation and roofing and roof drainage problems.

We are also Distributors thruout the Central, Southern and Western States for the following concerns: The National Asbestos Mfg. Co., Powhatan Mining Corp., Burt Mfg. Co. (ventilation problems).

One of our big specialties is our "Roof Management Plan" whereby we are enabled to extend our clients roof life indefinitely. This gives us a large number of orders for repair and recoat work every two years at a profit that beats all new contract work. Our motto is "Not how cheap, but how good." We carefully analyze all materials either sold or used and they must toe the mark or we refuse to sell or use them. *Fred Schierloh.*

I created, with the late Mr. Haag, our firm Becker & Haag, in 1902, so that I am now 31 years in the asbestos business, and this without any interruption.

H. Becker.

Like my old friend, George Righter, of New York, I have hesitated to submit my name for your list of "Old-Timers" in the business, on account of my "innate modesty," but you may as well know that in March 1898 I left the clam flats of Maine and came to Chicago, entering the employ of the Advance Packing and Supply Company, at that time owned by Ed. Werthiem of the Frankfort Asbestwerke.

In the course of events, I became affiliated with the United States Asbestos Company of Manheim, Pa., and have handled their products for more than a quarter of a century, and hope my pleasant association with them will continue for many years to come.

George L. Hammons.

I entered the Asbestos business as an employee of Nightingale & Childs Co. of Boston, in 1891, and remained with them until 1911, when I accepted a position as Contract Superintendent for Keasbey & Mattison Company, where I remained until 1930 when I formed the Standard Asbestos Covering Co., Inc. This Company, of which I am President and Treasurer, is now the approved contractor for Keasbey & Mattison Co. in the New England territory. *Charles Urh.*

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Asbestos Sculpture Introduced in London

Sculpture made of a combination of old newspapers and asbestos, technically known as "reinforced newspaper-surfaced asbestos" is apparently the latest novelty in the world of art. An exhibit of this most unusual work is one of the striking features of the annual exhibition of the National Society of Painters, Sculptors, Engravers and Potters, which recently opened at the Royal Institute Galleries, London.

The young sculptor who produces this strange work of art is Cecil Brown, a brilliant artist who won the Prix de Rome for Sculpture in 1928. Interviewed at the opening of the exhibition, Mr. Brown explained the secret of his new art. The whole figure bust is built up out of old newspapers and then covered with sodden flour and powdered asbestos mixed with water. Asbestos hardens very quickly and gives a surface like stone. Mr. Brown says that he uses asbestos from choice.

"The acknowledged methods have never really attracted me" he declared. "I prefer to create new mediums. Actually, 'Cynosure', which is the name I have given to my exhibit in the National Society's Exhibition, was a very delicate piece of work. Such parts as the features have to be very gently modelled. The nose, for example, is made up of only three thicknesses of paper."

Another interesting exhibit of Mr. Brown's is "Chimera of War," a spiderlike creature having mostly steel for the basis, but also containing asbestos in its composition. Altho far removed from the conventional, Mr. Brown's productions are real art and cannot be described as a passing fad.

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Brick-Type Siding

The covering of frame houses with asbestos cement shingles as siding has always offered an attractive market to the manufacturers of this material, but for some time it has been realized that a more attractive appearance in sidings than the ordinary asbestos shingle gives, would open up a market of wonderful possibilities.

Various types of asbestos cement shingles, especially designed for siding purposes, have been offered for sale during the last few years. None of them, however, are quite as attractive as the brick-type siding, now made by two of the manufacturers.



Showing Eternit Brick-Type Siding on the house to the right, and comparing with plain clapboarding on the one to the left.

One of these brick-type sidings was described several months ago in our pages. The second one, somewhat different, has only recently been brought to our attention by The RUBEROID Co.—Eternit Division.

Eternit Brick-Type Siding is made of Asbestos cement material similar to that used in the shingles, but the exposed or "brick" part of it is thicker than the rest of the siding strip, which raises the "brick" face above

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VERMONT ASBESTOS FIBRE

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LUMBER - PAPER
MILL BOARD - CLUTCH FACING
MOULDED BRAKE LINING
ROOF COATINGS - FIBROUS PAINT
PLASTICS - MOULDED PRODUCTS
BOILER COVERING CEMENTS

• • •

Vermont Asbestos Corporation
HYDE PARK, VERMONT

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the rest of the strip forming the mortar joints, and the finished job is similar in appearance to real brick. The brick face is rough textured and comes in redtone and buff with dark gray "mortar" joints.

The siding is made up in strips, 30 inches long and 6 inches deep, and there are three "bricks" (each 2½ inches by 9½ inches—just about the size of regular brick) to each strip. "Soldier" course "bricks" are supplied for use at the base and over windows and special corner pieces, mitred to a perfect fit to make the illusion of real brick even more remarkable.

The appearance when applied is nearly that of real brick — and the cost is less than half that of brick veneer. Besides its very attractive appearance, it has all the advantages of asbestos cement materials,—long life, fireproofness and no upkeep cost.

Insect Proof Pianos Find Asbestos Useful

By Fletcher Pratt, Paris, France

Tropical and Eastern climates have a severely destructive effect on wooden pianos, while in those same latitudes termites or white ants eat out the finest wooden instruments in a short time.

The new Gilbert "colonial" model piano, which recently made a sensation at the Salon des Arts Decoratifs in Paris, was designed especially to produce good music under tropical conditions.

The new Gilbert instrument is entirely in metal, largely in aluminum, and as a result of this all-metal construction, the first model produced at the Gilbert Piano shops had a distinctly "tinny" sound, the impact of the hammers on the strings setting up musical vibrations in the metal of the instrument itself, which interfered with the musical vibrations of the strings. The Gilberts decided that the only way to evade this and preserve the musical quality of the instrument was to pad the sounding board with strips of felting at all points where it came in contact with the metal body of the piano itself.

Obviously, ordinary wool felting would not do for

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ASBESTOS

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PRODUCER OF

RAW ASBESTOS

IN THE WORLD

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THETFORD MINES
EAST BROUGHTON
VIMY RIDGE

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COLERAINE
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the purpose for two reasons: in the first place wool felting is peculiarly subject to the ravages of a very common tropical insect known as the "silver-fish," and in the second, wool felting would have to be attached by glue, and the complete avoidance of glue is one of the reasons for the construction of the Gilbert "colonial" model in metal.

After several experiments, the Gilbert firm decided to use asbestos felting for the purpose, and found it worked perfectly. Asbestos felting can be attached by a cement or by very tiny screws, neither of which can be used with wool felting because the cement is absorbed by the felt and deadens it. Neither are screws satisfactory.

The piano exhibited at the salon was provided with the asbestos felt, and received the praises of several musical authorities for its perfect musical production, despite the fact that the instrument was entirely of metal.

The use of asbestos felting for this purpose points the way to the possibility of its use for the hammer-felts of the instrument and the Gilbert firm is now engaged in experiments along the line of producing a suitable hammer-felt in asbestos as well.

While the quantity of asbestos felt used in one piano is not, and will not be large at any time, even if the hammer-felt experiments are a complete success, the growing popularity of metal furniture for modern apartments and the extraordinary lightness and handiness of the Gilbert instrument, which can be taken down and carried from place to place by three men and set up by one, have caused a large flow of orders for the instrument to be placed in Paris apartments as well as for colonial purposes.

We know, of course, that asbestos is used in connection with welding, to protect the parts from flame, but it is brought once more to our attention by the description of welding done on the fuselage of an airplane in Texas, where wet asbestos was used to protect from fire. The wings of the plane, however, caught fire from a spark from the welding apparatus. A pity asbestos paper or cloth was not used to protect the wings.

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30 YEARS EXPERIENCE

FOR 30 years, we have specialized in the production of quality asbestos textiles.

Beginning with the crude asbestos rock, every process of manufacture is conducted in our splendidly equipped plant.

Our research laboratories and engineering staff have developed asbestos products accepted and used in a wide range of industries.

Experience, knowledge, facilities, resources: these essential factors enable us to design and make asbestos textiles of every character and for all purposes.

General Asbestos & Rubber Division
of
RAYBESTOS-MANHATTAN, Inc.
NORTH CHARLESTON, S. C.

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ASBESTOS
MARKET CONDITIONS

General Business.

There are favorable and unfavorable factors. The inauguration of the President of the United States is behind us, which very fact should help business to some extent. The banking situation is serious, but its very seriousness will insure its getting the best and quickest attention possible to give it. Of course at the present time (we write this several days before publication, and over a week before it will reach some of our readers) the banking situation is holding up much business, but we believe that when the banking troubles are worked out, business will resume, possibly on a better scale than before. In fact some think it will be the beginning of better business.

Asbestos. Raw Material.

Production for January was much below December, which isn't surprising. Improvement in the raw material end depends, of course, to large extent on improvement in the manufactured lines, and those lines are dependent upon building, automotive activity, and industrial activity.

Asbestos Manufactured Goods.

Textiles. There is not much change in textiles from month to month. Demand is low, and while some inquiries are showing, they do not seem to develop into orders. Prices are on the same general level as has prevailed for the last several months—very unsatisfactory.

Brake Lining. February showed an increase over January in the replacement field, due no doubt to the fact that dealers are beginning to stock up for their spring and summer sales. The equipment end is very slow. In general, however, the brake lining market seems to be holding its own in volume, and manufacturers confidently expect a change for the better within the next few months.

Insulation. High Pressure. Volume of new building remains quite low and, naturally, consumption of building materials is at low ebb. A few fairly large government buildings are in process of construction or estimating, and

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High-Grade Asbestos Textiles

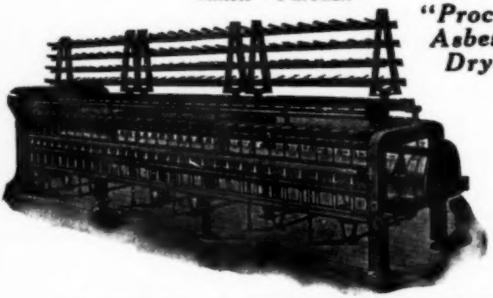
CARDED FIBRES
YARNS, CORD, MANTLE YARNS
PLAIN AND METALLIC CLOTHS
BRAIDED AND WOVEN TAPES
BRAIDED TUBINGS
WOVEN SHEET PACKINGS
WOVEN BRAKE LININGS
GLOVES, MITTENS, LEGGINS
GASKETS, SEAMLESS AND JOINTED
PACKINGS, STEM AND HIGH PRESSURE
WICK AND ROPE

ASBESTOS FIBRE SPINNING COMPANY
NORTH WALES, — PENNA.

ASBESTOS YARN MACHINERY

"Smith - Furbush"

"Proctor" Asbestos Dryers



PROCTOR & SCHWARTZ, INC.
Formerly Smith & Furbush Machine Co.
Seventh St. & Tabor Rd., Philadelphia, Pa.

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a little industrial buying is keeping the demand for insulations of this type at reasonable proportion. Prices are firm but unprofitable as evidenced by the 1932 statements of the largest producers.

Several new types of High Temperature insulations are appearing on the market, but in the light of small demand and the very excessive cost of selling in such a market the courage of anyone pioneering in such times and conditions is comparable only to that of the parachute jumper without his parachute.

Insulation. Low Pressure. Demand in February was very low, but March is already showing a slight improvement.

Paper and Millboard. Not much demand for either of these commodities. Prices, however, are fairly stable, the only saving factor.

Asbestos Cement Products. Asbestos shingle sales during February continue on the low mid-winter seasonal basis. Prices remain firm due to and in spite of the low volume of business and manufacturers of this asbestos commodity are anticipating much larger volume when the spring season opens.

It is interesting to note that asbestos shingles are not affected by the price fluctuations in other types of roofing materials which indicates that they are a stable commodity sold generally on a quality basis for which the quality buying trade is willing to pay reasonable prices at all times on account of the recognized merit of the asbestos shingle roof.

Considerable new volume in the asbestos field is looked for in the coming year on account of the introduction of many ingenious and attractive shingles designed especially for siding purposes.

Flat and corrugated sheets continue rather slow, principally because most of this material is used by industrials.

The above represent the opinions of those closely in touch with the various markets. We would be glad to have opinions from any and all of our readers.

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CONTRACTORS AND DISTRIBUTORS PAGE

THE REAL WORKERS WILL FIND BUSINESS

Published by Permission of United Commercial Travelers of America

Once more the sun is rising on the business world. A better day is at hand and there is business to be had by those who are willing to work. The business recession has reached the lowest point of its long drop and is now levelled off ready for the workers to start it upward again.

Will you be one of those who will get your share of business in the coming year? It will mean work. You may think that you have been working during the past three years but now you are going to really learn what the word means.

Have you been doing all that you might have done during these bad years? Can you plan your time so that you can add even a few minutes to your daily schedule? Minutes will count this year. And those minutes must be used in planning and carrying out the plans that will help others as well as yourselves.

The very future of orderly government throughout the world rests upon the efforts of the business men and the salesmen during the next year. You are yourself an important cog in the business machine and your work may make or break the whole effort. If you work diligently your factory will be able to employ men. If you fail to give all that is in you, there may be children crying for bread because of your failure.

This is the most important year that America has ever faced. It does not matter in which of our countries you may reside, the situation is the same and the cure is the same. Wherever you may look there is business to be had if you are willing to do all that is required. The shelves and storehouses of the continent are empty. The factories have not been operated for so long a time

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that even they are without any manufactured product.

The public will not buy but it can be sold. The talk of a "buyers' market" has gone the way of all other catch phrases and business once more realizes that markets are made only by selling. Go out now and get your share. Be a real salesman and work unceasingly because the reward will be greater than ever before.

Remember this as you work: You are not merely working for yourself. You are not building alone this time. Your efforts are tied up with thousands of other salesmen in a war against suffering and distress. You are enlisted in an army whose objective may be profits but whose victory means the security of your nation. That victory means comfort to workmen. It means bread for the children and happiness for the mothers of the land. You must not fail. You dare not refuse the responsibility. You are the sole hope of the continent, you business men and salesmen, and you will find your reward in some real business because it can be had if you work.

The 1933 Guide published by the American Society of Heating & Ventilating Engineers, is off the press and a copy in our hands.

The Guide contains eleven new chapters and extensive revisions of last year's information, so that it is up-to-date and a source of valuable information to those interested in the heating and ventilating trades.

The Chapter of particular interest to the Asbestos and Insulation Industry is No. 13, Heat Losses from Bare and Insulated Pipes.

Insulation manufacturers and contractors will be interested in the advertisement which appears on page 13.

WAGE NOTES

Rochester, N. Y. Asbestos workers and other trades accepted a 10% wage reduction during the latter part of January, which makes the Rochester rate for Mechanics 91c per hour. The old rate was $1.01.

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An Asbestos Suit Explores an Active Volcono

While asbestos is of great value to industry, perhaps science finds it of even greater benefit.

An instance of asbestos serving in scientific research which recently came to our attention is the feat of Arpad Kirner, the explorer, who recently descended into the seething crater of the volcano Stromboli, on the little island of that name near Sicily.

M. Kirner was equipped with an asbestos suit with helmet strong enough to protect his head from showers of falling stones, a breathing apparatus with an adequate supply of oxygen, and a carefully prepared asbestos rope by which he could be lowered and hauled up again, the asbestos rope being used on a windlass.

His description is most interesting. "The walls of the crater", he says, "assumed black, red and yellow tints, while from the cracks poured sulphur vapor." Eventually his feet touched a solid surface which felt very hot. He measured the temperature and saw that the thermometer was over boiling point (212 deg. F.). The temperature of the air, however, was only 149 deg. F.

On the floor of the crater were great pits, from 10 feet to 30 feet deep, at the bottom of which he could see lava seething like boiling porridge. Every now and then great bubbles formed which burst with a loud crash and hurled big stones and lumps of incandescent material into the air.

At one point there was a little lake, a sight to fill one with awe for the boiling lava was like the sea during a storm. Every now and then it formed great waves which exploded and hurled beyond the mouth of the crater burning masses of lava, hundreds of stones the size of melons, and lumps of ash which burst and descended in clouds.

M. Kirner remained in the crater nearly three hours, and we in the Asbestos Industry will be more interested in this fact than any other — that the *only* reason he ascended at the end of that period of time was because

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his oxygen supply was nearly exhausted — the asbestos suit apparently held up perfectly.

Soviet Asbestos During the First Five Year Plan

Reprinted from Soviet Five Day Bulletin
of Issue Nr. 3/4 January

The Soviet asbestos industry was completely reconstructed during the years of the First Five Year Plan, new plants having been constructed, old ones reorganized and new kinds of production introduced.

In Ural a new concentration plant "Gigant" began to operate in 1932. Its production capacity is 40,000 tons asbestos per annum. In 1931 the concentration plant No. 6 with an annual capacity of 7,000 tons began operations. It is equipped on the most modern lines. The trust "Uralasbest" owns at present 8 excavators, a great number of 10 ton wagons, elevators with a capacity of 27 tons.

The total production of asbestos amounted in 1928-29 to 35,400 tons, in 1929-30 to 49,700 tons, in 1931 to 64,600 tons. In 1932 the production considerably increased again.

Progress was particularly striking in the production of thermo insulation material. Four mills were constructed for this purpose in Briansk, Voskressensk, Novorossisk and Kramatorak. Their total production capacity reached 20,000 tons. Production on a large scale started in these plants in the middle of 1932. Other kinds of asbestos insulation material are produced in Rostov-on-Don, Taganrog, Inza (Middle Volga) and Kunara (Ural).

ITALIAN

FINE YARNS — CLOTHS — TAPES

ITALIAN ASBESTOS FIBRE

MANUFACTURED BY:— SOCIETA ITALO RUSSA PER L'AMIANTO

AGENTS:— BERTOLAIA & GOEDERT 24 VARICK ST., NEW YORK

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Imports into U. S. A.

Beginning with the January 1933 figures, both Imports into the U. S. A. and Exports from U. S. A. will be published the same month. This will make the Import figures one month later than previously. For instance the January figures will be published in the April number.

Exports from U. S. A.

Exports of unmanufactured asbestos during December[1] 1932, amounted to 174 tons, valued at $9,933, compared with December[1] 1931, in which 120 tons were exported, valued at $7,221.

Exports of Manufactured Asbestos Goods:

	December[1] 1931		December[1] 1932	
	Pounds	Value	Pounds	Value
Paper, Mlbd. & Ribd.	77,658	$6,303	24,519	$2,526
Pipe Covering and Cement	76,731	4,932	582,636	28,854
Textiles, Yarn and Packing	65,889	36,759	64,140	31,678
Brake Lining				
Molded and semi-molded	.....	49,007	.....	34,581
Not Molded[2]	206,880	37,734	138,220	19,029
Magnesia and Mfrs. of	137,138	10,361	81,348	6,486
Asbestos Roofing[3]	1,995	5,566	18,683	22,092
Other Manufactures	276,963	26,999	151,785	11,418

[1]Exports one mo. behind imports. [2]Lin. ft. [3]Squares.

SUMMARY FOR THE YEAR—EXPORTS FROM U. S. A.

Exports of Unmanufactured Asbestos during the year 1932 totalled 1,524 tons, valued at $94,936; during the year 1931, 1,530 tons were exported, valued at $122,391. (Ton equals 2,240 lbs.)

Exports of Manufactured Asbestos Goods:

	1931		1932	
	Pounds	Value	Pounds	Value
Paper, Mlbd. and Ribd.	1,269,434	$125,833	586,877	$61,062
Pipe Covg. & Cement	2,100,190	119,810	2,452,678	136,140
Textiles, Yarn & Pkg.	1,271,150	662,030	904,203	431,218
Brake Lining				
Molded & semi-molded	.....	419,763	.....	396,543
Not molded[2]	3,971,500	720,360	1,959,797	299,220
Magnesia & Mfrs. of	2,905,282	200,543	1,220,216	91,117
Asbestos Roofing[3]	26,556	109,767	30,886	59,306
Other Manufactures	2,392,598	248,060	1,293,997	134,274

[2]Lin. Ft. [3]Squares.

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Exports of Raw Asbestos from Canada.

	January 1932		January 1933	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
United Kingdom	25	$ 1,250	40	$1,470
United States	2,817	137,183	2,617	98,320
Australia	25	1,500	80	4,800
Belgium	25	812	20	2,200
France	50	2,000	40	803
Germany	20	1,600	182	11,540
Italy	142	11,960	11	1,210
Japan	863	41,010	1,924	94,010
	3,967	$197,315	4,914	$214,353
Sand and Waste—				
United Kingdom	60	1,290	.....	.....
United States	5,503	77,309	4,084	53,395
Belgium	50	750	.....	.....
Germany	....	.....	60	1,080
Italy	44	1,000	....	....
Japan	27	463	5	50
Mexico	30	330	....	....
	5,714	$81,142	4,149	$54,525
Grand Total	9,681	$278,457	9,063	$268,878

Imports and Exports by England.

Imports of Raw Material.

	January 1932		January 1933	
	Tons (2240 lbs.)	Value	Tons (2240 lbs.)	Value
Africa (Rhodesia)	225	£3,845	477	£10,047
Africa (Union of S.)	105	2,230	333	5,732
Africa (Port. E.)	.....	.....	89	1,512
Australia	5	160	.....	4
Canada	33	357	38	535
China	.....	9	.....	.....
Cyprus	.....	.....	111	2,001
Finland	50	450	.....	.....
Germany	.....	.....	20	532
Italy	.....	.....	5	359
SovietUnion (Russia)	81	2,110	22	616
U. S. of America	33	331	19	175
	532	£9,492	1,114	£21,513
Re-Shipmens	53	1,335	26	860

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Imports and Exports by England Continued

Exports of Manufactured Goods.

	January 1932		January 1933	
	Tons (2240 lbs.)	Value	Cwts.	Value
To Netherlands	38	£ 4,033	691	£ 3,280
To France	5	1,819	407	2,333
To U. S. A.	5	1,259	47	331
To Br. India	229	7,200	4,660	6,956
To Australia	27	4,530	646	5,043
To Other Countries	1,016	41,034	13,044	37,833
	1,320	£59,875	19,495	£55,776

Note: That the January 1933 figures are given in cwts.



Africa (Rhodesia).

(Statistics published by Rhodesia Chamber of Mines).

	December 1932			
	Tons (2000 lbs.)	Value		
Bulawayo District				
Nil Desperandum (Afr. Asbestos Mng. Co. Ltd.)	269.00	£3,362	10	..
Shabanie (Rho. & Gen. Asb. Corp. Ltd.)	1,175.34	14,691	15	..
Victoria District				
Gath's & King (Rho. & Gen. Asb. Corp. Ltd.)	500.02	6,250	6	3
	1,944.36	£24,304	11	3
December 1931	*776.82*	*£9,703*	*10*	*5*

SUMMARY FOR THE YEAR—RHODESIA (Tons—2000 lbs.)

	1931	1932		1931	1932
January	4,430.27	754.83	July	1,056.00	822.14
February	4,719.53	873.07	August	1,411.82	1,044.07
March	1,995.19	1,000.23	September	1,283.11	1,195.18
April	2,975.87	1,740.27	October	114.08	898.41
May	3,409.53	1,118.43	November	552.89	2,519.37
June	1,317.35	1,855.64	December	776.82	1,944.36
			Total	24,042.46	15,766.00

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ASBESTOS

Production Statistics Continued

Africa (Union of South).

(Statistics published by the Dept. of Mines & Industries of U. of S. A.)

	December 1931 Tons (2000 lbs.)	Value	December 1932 Tons (2000 lbs.)	Value
Transvaal				
Amosite	141.00	£1,410	91.10	£ 906
Chrysotile	509.00	4,039	479.00	2,955
Cape				
Blue	158.17	2,933	157.79	2,776
	808.17	£8,382	727.89	£6,637

SUMMARY FOR THE YEAR—UNION OF SOUTH AFRICA

(Tons—2000 lbs.)

	1931 Tons	1932 Tons		1931 Tons	1932 Tons
January	1,870.51	1,475.00	July	1,030.26	1,119.61
February	1,380.42	1,233.77	August	1,908.70	844.94
March	1,643.22	915.89	September	1,060.34	1,007.37
April	1,474.67	812.95	October	934.76	1,402.43
May	1,306.93	952.81	November	1,323.88	791.10
June	938.73	786.91	December	808.17	727.89
				15,680.59	12,070.67

Canada.

(Published by Dominion Bureau of Statistics).

	January 1932 Tons (2000 lbs.)	January 1933 Tons (2000 lbs.)
All Grades of Crudes & Fibres	5,951	10,190
By-Products (Sand, Gravel, etc.)	64	402

ASBESTOS STOCK QUOTATIONS

(Figures supplied thru the courtesy of Edward G. Wyckoff and Company, 1528 Walnut Street, Philadelphia, Pa.)

	Par	Div.	February 1933 High	Low	Last
Asb. Corp. (Com.) Old	np	–	⅛ - ¼*		
Asb. Corp. (Pfd.) Old	100	7	⅛ - ½*		
Carey (Com.)	100	5	Quote 30 - 40		
Carey (Pfd.)	100	7	Quote 65 - 75		
Certainteed (Com.)	np	–	1¼	1	1¼
Garlock Packing (Pfd.)	np	–	No Sales		
Garlock Pkg. (Bonds)	100	6	No Sales		
Johns-Manville (Com.)	np	–	21½	15	16¾
Johns-Manville (Pfd.)	100	7	70	58	62
Raybestos-Manhattan Inc. (Com.)	np	1	8	5	5½
Ruberoid (Com.)	np	4	15⅜	15⅜	15⅜
Thermoid (Com.)	np	–	1½	1	1⅛
Thermoid (Pfd.)	100	7	7	7	7
Thermoid (Bonds)	100	6	37¾	27	29

* Quote — Nominal.

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NEWS OF THE INDUSTRY

Birthdays. The following gentlemen will celebrate their birthdays during the next 30 days: C. C. Hall, Secretary, National Asbestos Mfg. Co., Jersey City, N. J., March 17th; Lyndon E. Adams, President, Anchor Packing Co., Philadelphia, Pa., March 21st; John F. Bolger, Vice President, Allbestos Corporation, Philadelphia, Pa., March 27th; J. O. Gillen, President, Gillen-Cole Co., Portland, Ore., March 31st; Glendon A. Richards, President, Richards Mfg. Co., Grand Rapids, Mich., April 1st; George Kanzler, President, Smith & Kanzler Co., Elizabeth, N. J., April 4th; P. H. Jamieson, Manager, Jamieson Asbestos Co., Montreal, P. Q., April 13th. We extend best wishes and hearty congratulations to all these gentlemen.

Russell Manufacturing Co., of Middletown, Conn., is completely remodeling and re-equipping its research laboratory and is spending more than $100,000 a year on research work on current and new products. Among the new equipment purchased and installed are a new inertia machine to test brake lining in an exact duplication of road operating conditions including a blower to create air streams simulating different automobile speeds, an elaborate clutch facing machine and other ultra-modern equipment.

Henry MacDonald is director of research for the Russell Manufacturing Company, and the laboratory supplements the work of the Rusco road fleet of 12 cars and trucks which are on the road at all times to test new products and ideas after they have passed thru the laboratory. Rusco has undertaken this new development work in view of the new problems imposed upon brake lining manufacturers by modern developments in the brake world, including free wheeling, cast iron brake drums, smaller wheels, smaller braking areas with higher speeds and other new braking principles.

Raybestos-Manhattan, Inc. During the year 1932 Raybestos-Manhattan, Inc., incurred a net loss of $457,167.39, after provisions of $555,647.66 for depreciation. The Company's Balance Sheet at December 31, 1932, showed Current Assets of $6,277,670.73, equivalent to twenty times the Current Liabilities of $312,630.07. There were no bank loans, bonds, or other funded indebtedness. The common stock is the Company's only capital obligation outstanding. The net Current assets represented $9.21 per share, and the cash and cash funds of $3,325,067.19 were equivalent to $5.12 per share, issued and outstanding in the hands of the public.

The Directors declared a dividend of fifteen cents per share, payable March 15, 1933, to stockholders of record at the close of business February 28, 1933.

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BLUE ASBESTOS

The "CAPE" quality of blue crocidolite, owing to great tensile strength, volume, and acid-resisting properties, has been proved to be the world's finest material for:-

(1) High Temperature Insulation
(2) Bulkheads and Fireproof Partitions
(3) Asbestos Cement Pipes
(4) Textiles
(5) Electrode Wrappings for Arc Welding

AMOSITE ASBESTOS

owing to its great length of fibre, is ideal both in economy and efficiency as a constituent for:-

85% MAGNESIA COVERINGS

Magnificent success has been achieved with the latest specialty in Amosite material, viz:-

100% AMOSITE SECTIONAL PIPE COVERINGS

AND BOILER CASINGS FOR BOTH MARINE AND POWER PLANT INSTALLATIONS

Address Enquiries to the Mine Owners and Manufacturers::

The Cape Asbestos Co Limited
Morley House 26-30 Holborn Viaduct London E.C.1.
Factory. Barking, Essex

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Asbestos Corporation Limited. On and after March 26th the address of the London Office of Asbestos Corporation Limited will be 68 Victoria St., London, S. W. 1, England. The present address is 10 Cullum St., Fenchurch, London, E. C. 3.

Close Asbestos Co., Ltd., Cheapside, Wakefield, Yorkshire, has been registered as a private company with nominal share capital of £2000, to carry on the business of asbestos manufacturers, manufacturers of asbestos goods and composition for insulating machinery and boilers. The directors are Henry A. Close and John A. Close.

The India Rubber Journal is publishishing each week an article on some phase of the Asbestos Industry. Recent articles appearing in that Journal are: Asbestos Used in Converter Practice, in the January 28th issue; Principles of Asbestos Rock Treatment and The Mechanical Mixing of Asbestos and Rubber, in the February 4th issue; The Absorption of Moisture by Asbestos, in the February 11th issue.

Russell Mfg. Co. of Middletown, Conn., has completed the first series of twelve sessions of the new type of brake schools which it inaugurated in the fall. Almost 1,000 service station owners and mechanics, fleet owners and others interested in brake problems, attended the schools conducted in the New York and Southeast Rusco divisions by A. C. Teetsel, road testing engineer of the Rusco laboratory at Middletown. The cities in which the schools were held are Morristown, N. J., Mt. Vernon, N. Y., Philadelphia, Pa., Baltimore, Md., Hagerstown, Md., Norfolk, Va., Newport News, Va., Rocky Mount, N. C., Columbia, S. C., Charleston, S. C., Anderson, S. C., and Knoxville, Tenn. Mr. Teetsel has started a new series of Rusco brake schools in the Detroit territory.

Feitis & Cia, Lavalle 391, Beunos Aires, Argentina, desires to receive catalogs and prices from U. S. manufacturers of roofing materials—built-up roofing, asbestos cement, sheets plain or corrugated, for roofs and walls—which would not interfere with Certainteed products, the firm being at the present time an agent for the Certainteed Products Company. Sales information report on this firm may be obtained from Bureau of Foreign and Domestic Commerce, by referring to trade opportunity 167312.

The Ruberoid Company. This company reports for the year 1932 a loss of $220,069 as compared with a profit of $488,106 in 1931. The balance sheet continues to show an exceptionally strong financial position, current assets of $5,766,580, being about sixteen times current liabilities of $361,710. Cash was $13.30 per share, marketable securities $12.95 per share, net current assets $40.75, and net book value $113.64. A quarerly dividend of twenty-five cents per share was declared payable March 15, 1933, to stockholders of record March 1, 1933. The same amount was paid in the preceding quarter.

The Durwyllan Co. of Paterson, N. J., will shortly announce a new line of auto polishes, floor waxes, etc. The Company will

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continue to manufacture its Alltraffic brake lining.

U. S. Rubber Company, according to Brake Service have announced that they have discontinued brake lining sales, effective January 27th, at which time notice was sent to the trade by C. A. Baer of the Brake Lining Sales Department.

Russell Mfg. Co. N. R. Sage, Export Manager, states that the booking of orders in the export department for the week ending February 18th was the largest that the company had had in eighteen months. For the past three months the export department has run 15% over last year for the same period in dollar volume in spite of the fact that prices are lower.

Tasmania Asbestos Mining Co. From the "Hobart Mercury" comes the report that the Tasmania Asbestos Mining Co. has commenced mining for asbestos on a marketable scale at Anderson's Creek near Beaconsfield and that the first unit of the treatment plant is now engaged in grading, stripping, etc., in connection with the export of fibre to the mainland. Apparently the material produced is of the chrysotile variety, some of the fibres being over 2" long.

The Cape Asbestos Company has applied for a patent in the United States for the manufacture of their "Caposite" Sectional Pipe Coverings produced from Amosite Asbestos. The Trade Mark "Caposite" has already been registered there.

South African Government Subsidy. The Subsidy on the export of Asbestos from South Africa, which has hitherto stood at 10% on the value of the material exported, was reduced to 7% as from the 14th of February 1933.

PATENTS

Refined Magnesia Product from Mineral Sources of Magnesia. No. 1,893,047. Granted on January 3rd to Harvey N. Barret, Tiffin, O., assignor to Dolomite, Inc., Cleveland, Ohio. Filed March 31, 1930. Serial No. 440,289.

Description upon request.

Method of treating amphibolic material for Transportation. No. 1,894,250. Granted on January 10th, to Grant V. Wilson, Chicago, Ill., assignor to Norristown Magnesia & Asbestos Co. Filed Sept. 13, 1930. Serial No. 481,814.

Described as a method of treating natural loosely flocculent amphibolic material for transportation which consists in reducing the natural moisture contained in such material and considerably reducing the volume of such material while retaining its initial commercial quality by confining and pressing the dessicated material to solid but frangible form from which it may be subsequently released and restored to its initial composition and flocculent form.

Frictional Material. No. 1,898,025. Granted on February 21st to Rudolpf L. R. Wild, Chicago, Ill. Assignor to Union Asbestos & Rubber Co., Chicago, Ill. Filed Feb. 24th, 1930. Serial No. 430,554.

Described as a friction material comprising asbestos fibres felted together and a plurality of electrolytic zinc bodies carried between said fibres and exposed at the surface of said material.

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THIS AND THAT

A new type of conveyor belt, called Condor has been announced by the Manhattan Rubber Mfg. Division of Raybestos-Manhattan, Inc., Passaic, N. J.

In more than five years of testing this new type conveyor belt has run up performance records that surpass all previous ones made on the same installations.

A most attractive showcard, printed in seven colors, by the new silk process which gives the finished card the appearance of an oil painting, is being distributed by Hall & Nielsen, Ltd., of Bury, England, manufacturers of "Bramec" Brake Lining, to their distributors and thruout the motor and industrial trades of England as well as to export agents. The card is about 13½ inches by 17¾ inches.

Customer: Why don't you advertise?

Storekeeper: No sir! I tried it once and it pretty near ruined me.

Customer: How was that?

Storekeeper: People came in here and bought durned near everything I had.—Insulated Inklings.

An Uruguayan decree dated November 4th, allocates asbestos fibre to the raw materials section of the Uruguayan tariff, dutiable at 5%, plus a surtax of 4%, of an official valuation of $0.115 peso per gross kilo. Asbesto Fibre was previously dutiable at 31% plus a surtax of 14% of an official valuation of 0.65 peso per gross kilo.

The reference to Blue Asbestos in Soviet Russia in the India Rubber Journal, January 21st issue, has proved to be a "Mare's Nest." Apparently the contributor of this article was misled by certain information which had appeared in another publication a few months earlier.

General Electric Co. of Schenectady, N. Y., had sales in 1932 of $147,162,291, compared with $263,275,255 in 1931. Current assets were 10.9 times current liabilities in 1932, compared with 7.7 times in 1931.

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Happiness

Happiness is like a crystal,
Fair and exquisite and clear
Broken in a million pieces,
Scattered far and near.
Now and then, along one's pathway,
Lo, some shining fragments fall,
But there are so many pieces,
No one ever finds them all.

You may find a bit of beauty,
Or an honest share of wealth,
While another, just beside you,
Gathers honor, love or health.
Vain to choose or grasp unduly,
Broken is the perfect ball,
And there are so many pieces,
No one ever finds them all.

Yet the wise, as on they journey,
Treasure every fragment clear;
Fit them as they may together,
Imaging the shattered sphere.
Learning to be thankful,
Though their share of it is small,
For it has so many pieces,
No one ever finds them all.

Author Unknown

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