

ISINGLASS IS COMBUSTIBLE

Bureau of Mines Calls Attention to Erroneous Idea that Isinglass is Used on Stoves.

(By Associated Press)

WASHINGTON, July 6.—Do you remember how you used to sit before the old barrel stove in the parlor, or before that "new fangled" latrobe, watching the glow of the cheery winter fire through the "isinglass" windows. You may think that since the basement furnace has generally supplanted the troublesome peaky things the producers of "isinglass" must have long since gone bankrupt; but there's more demand for it now than ever before, says the U. S. Bureau of Mines.

Anyway, it was not isinglass at all in the front of the stove. Had it been, it would have lasted as long as paper, or isinglass, is made of the air bladders of certain fish and is a soluble combustible substance. What really was in the stove windows was mica, one of the oldest of natural substances, and which is now one of the greatest boons in the electrical industry as a perfect insulator. So important is mica in electrical goods, it is declared, that many of the larger electrical supply manufacturing companies own and operate their own mica mines.

Mica, says the Bureau, includes a group of several minerals characterized by a perfect basal cleavage by virtue of which they may be split into exceedingly thin plates. How often, as a youngster, did you make wonderful finds of "gold" or "silver" among the rock deposits near the homestead? Of course, the dreams of wealth vanished when you found the silvery or golden flakes were only mica. Much mica has no commercial value, it is only when it occurs in large deposits where it appears in "books" fairly free from defects, varying in width and length from a few inches to feet and up to six inches or more in thickness, it is of value.

Of the several varieties of the mineral only two are of commercial value, the "muscovite" or white mica, and the "phlogopite" or amber. India, Canada and the United States are the chief producers. Mica possesses a combination of special qualities which is found in no other substance, consequently no satisfactory substitute has been found. Chief among these qualities are elasticity, toughness, flexibility, transparency, ability to withstand excessive heat and sudden changes of temperature, high dielectric strength, cleavability and resistance to decomposition.

An important use of electrical mica is for inter-leaving between the copper segments of commutators. Thin films are used in vast numbers in condensers for magnetos and in wireless apparatus. As sheets in greatly diversified shapes, or as washers and tubes, mica is used extensively as an insulator in dynamos and in various appliances, in fuse boxes, sockets, insulators, electric heaters, flat-irons, telephones, etc.

As a heat-resisting transparent medium, sheet mica is still used in furnace sight-holes, for heat screens, lamp chimneys, canopies and shades particularly for gas mantles also for military lanterns and lantern slides.

Its ability to withstand strains and shocks, combined with its transparency has led to a wide use in motor goggles, spectacles, divers' helmets, smoke helmets, compass cards, gage fronts, and in windows subject to shock such as on the conning-towers of battleships.

Owing to the resonance of mica circular sheets of high grade muscovite are used extensively in phonographs as sound producing devices. Such sheets are also in other sound detecting devices such as the submarine detectors.

The brilliancy of its reflecting surfaces gives the mineral a wide use as a decoration, notably as Christmas tree "snow." Coarse ground mica is also used for ornamentation of pottery, lamps, curtains, cloth and in India, in decorating the temples.

An unusual use for the ground product, which, says the Bureau of Mines "fortunately has not extended outside India," is in medicinal and wound dressings.

The recent development of wide uses for the ground product has opened a wide field for utilization of waste and scraps, and saved the industry much expense. The more impure and coarser types are used as a coating to prevent tar roofing from sticking when rolled; pure and finer grades are used in paints, ornamental tiles and concrete. A mixture of ground mica and powdered aluminum is said to make a rust-preventing paint of good quality.

On account of its heat-resisting quality it is used extensively in railroad car axle packing, in pipe and boiler coverings, in fire-proof paints and even in rubber tires. Ground mica is also used in amassing steel, as an absorbent, for nitrolycerin in the manufacture of certain explosives, as a component in roofing, as a filler in rubber and other products, in calico printing and as tire power.

The purest and finer powder is used for wall paper decorations, as a lubricant for wood bearings, and mixed with oil as a lubricant for metal bearings. It has been found that mica may also be used successfully as a flux in ceramic wares.

FOREIGNERS ARE FILLING COUNTRY

WASHINGTON, D. C., July 5.—The department of commerce announced today, according to the census of 1920, the number of persons included in the foreign white stock of the United States whose mother tongue was reported as English or Celtic (including Irish, Scotch, Welsh, and Manx), practically all of whom were English speak-

ers) decreased from 9,970,861 in 1910 to 9,729,365 in 1920, the rate of decrease being 2.5 per cent, and the number of white persons of German mother tongue declined during the same period from 8,645,402 to 8,164,109, a decrease of 5.6 per cent; while for all other important linguistic stocks increases are shown, some of them at very high rates. In particular, the group reporting Italian as the mother tongue increased from 2,135,293 to 3,765,864, or at the rate of 75.7 per cent; the Polish increased from 1,684,195 to 2,436,895 or at the rate of 44.7 per cent; the Yiddish and Hebrew from 1,654,142 to 2,043,613, or at the rate of 22.8 per cent; while the number of persons reporting the Russian language as their mother tongue grew from 91,311 to 131,949, the rate of increase being more than 40 per cent. The "foreign white stock" is meant the total foreign-born white population plus the native white population having one or both parents foreign born. The term "mother tongue" refers to the language of customary speech in the homes of the immigrants before coming to this country. Foreign-born persons are classified according to the mother tongue of the foreign parents.

In 1910 the "English and Celtic" group formed 30.3 per cent of the total foreign white stock; in 1920, only 26.7 per cent. In 1910 persons of German mother tongue constituted 36.8 per cent of the total foreign white stock; in 1920, only 22.4 per cent. During the same period the Swedish group showed a decline from 4.3 per cent to 4.1 per cent, the Norwegian, from 3 per cent to 2.8 per cent, and the French from 4 per cent to 3.5 per cent. Practically all the other mother tongues, including all the important ones, showed increases.

Named in the order of their numerical importance, the leading mother tongues represented in the foreign white stock of the United States in 1920 are as follows: English and Celtic, 8,164,109; Italian, 3,765,864; Polish, 2,436,895; Yiddish and Hebrew, 2,043,613; Swedish, 1,435,962; French, 1,290,110; Norwegian, 1,029,788. These eight mother tongues represented 29,525,806, or 81.3 per cent, of the 36,388,968 persons constituting the foreign white stock of the United States as enumerated in 1920.

Weight Changes Every Hour.
We are lightest when we rise in the morning. Breakfast puts on a pound or so, but we lose some of it by lunch time, when we again add it, our weight. After lunch back we go once more, though, as between breakfast and lunch, we retain part of the increase. Then comes dinner, which brings us up to our maximum. We have then gained, on the average, seven pounds during the day. Generally, therefore, the greatest variation during the 24 hours is seven pounds, the weight lost between dinner and breakfast.

Please Remit.
The married man in the "line" had failed to send his wife her regular monthly allowance. Shortly after pay day he received a very solicitous letter: "Dear Bob," she wrote, "No letter came today. Maybe you are sick; so be careful to eat good, sleep good, live good and send home a money order by return mail. Your anxious wife."—The Leatherneck.

MAN TO MAN

WE'VE GOT THE BIGGEST THING IN WESTERN THRILLS EVER SCREENED TOMORROW

Snodgrass and Zimmerman

Funeral Service Parlor, Licenced Embalmer, Ambulance Service. Day Phone Main 62, Night Phone, Main 743. 1505 Fourth St. La Grande, Oregon.

MILLIONS PAID OUT FOR BONUS

SALEM, July 6.—A total of 14,066 cash bonus claims aggregating \$3,525,729.58—an average of \$249.00—and 895 bonus loans aggregating \$750,210.72, had been paid by the state up to June 30, according to a statement issued by Secretary of State Koser, Monday. These figures allow for the deduction of a total of \$80,700.19 from the bonus claims by reason of benefit received by the applicants under the soldiers' educational aid act, this amount being credited to the general fund of the state for general governmental purposes.

Koser's statement shows that every county in the state has benefited through the distribution of bonus funds, 12,464 of the 14,066 claims being paid to residents of Oregon. A total of 2143 claims aggregating \$316,808, have been paid to ex-service men who are now residents of other states and territories and 53 claims, aggregating \$12,701, have been paid to residents of foreign countries.

Warrants covering all bonus claims are forwarded to the applicants within a few days after approval of the claims by the state bonus commission. Koser declares. Of the total number of claims so far approved, only 22 remain undelivered because of the claimants' change of address.

In Union county a total of \$63,840 has been paid to 366 claimants. Washington county's share of the money already paid is \$24,489 to 102 applicants.


CATTLE TESTERS QUALIFY
PENDLETON, Ore., July 6.—Ten graduate veterinarians of eastern Oregon took an examination under direction of Dr. W. H. Lytle, state veterinarian, last week-end, and qualified for the testing of cattle for the bureau of animal industry.

It's Splashin' Time

at TILLAMOOK COUNTY BEACHES and NEWPORT By-the-Sea

PLAN NOW to enjoy the tang of salt sea air that pays big dividends in Health, Joy and Happiness.

VACATION TRAVEL COSTS ARE DOWN THIS SUMMER



SOUTHERN PACIFIC LINES
John M. Scott, General Passenger Agent, Portland, Oregon.

You may increase your engine power 20%

Too heavy an oil, or one lacking in certain qualities, may reduce the power delivered to the wheels of the automobile as much as 20%.

The ideal oil is the thinnest oil which will keep the bearing surfaces of the mechanism separated.

Providing this oil has "oiliness," stability and purity, it will give perfect lubrication, and permit the development of the maximum power, speed and gasoline mileage of the car.

"Oiliness" — Stability — Purity

Zerolene meets the conditions perfectly. It has great "oiliness," due to the crudes from which it is made, and our own patented process of high vacuum distillation.

It has great stability, as a result of which it resists engine heat and forms only a minimum of carbon of a soft, flaky nature which blows out with the exhaust.

And it is pure. This company has always considered the removal of all detrimental properties and compounds as essential in making Zerolene.

Zerolene of the correct grade gives perfect lubrication and permits the development of the maximum power, speed and gasoline mileage of the car.

Board of Lubrication Engineers
STANDARD ON CRUISE (Lubrication)

more power & speed ~ less friction and wear ~ thru correct lubrication.

and for the inspection of horses to be shipped to Canada. Those here for the examination were Drs. A. D. Moore, Ontario; B. E. Nevill, Princeville; E. A. Reagle, Baker; H. W. Ribby, La Grande; L. L. Taylor, Condon; E. R. Plack, Enterprize; T. Beetzki, Wasco; J. A. Haines, and C. W. Lassen, Pendleton.



McK & R ANALAX



Wise Mothers no longer punish cross children

The light shines through the window only when it is clean and bright on the inside as well as on the outside. And so does the light shine from the face of the little child when it is clean from within as well as without.

When their little faces are clouded with trouble, it is a sure sign that there REALLY IS trouble somewhere. Generally with their bowels.

Give them from a half to two little cubes of Analax at bed time.

Glass Drugs

PHONE MAIN 20

Attention! Sawmills

We will be in the market this season for several million feet of pine lumber.

Good, Soft Pine Boxes Are Our Specialty

Union Box Co.

F. Jasmann, Manager, La Grande, Oregon Telephone, Main 588



5 New Styles Just Arrived

Just received a big shipment of new styles in ladies' fancy high grade strap pumps. These shoes are all right up to the minute, both high and low heels. All sizes and widths.

SEE OUR WINDOW DISPLAY

The Bootery

A Paradise for Tired Feet Grover Smith, Mgr.

If, out of every one hundred people in civilized lands, seventy-five were minus one hand, one foot, one eye or one ear, everyone would marvel.

Yet it is a fact that today seventy-five people in every hundred are defective in what is undoubtedly our most precious gift—the faculty of sight.

There are only twenty-five people in every hundred who have perfect sight. The remainder are—or should be—wearing glasses in order to correct the deficiencies of their vision.

If you are not absolutely positive that you have perfect vision call and let us make a careful, scientific examination of your eyes.

Our equipment is the most modern.

DR. W. M. PEARE Optometrist
With
J. H. PEARE & SON

HERE is a fabric tire in a class by itself. Literally it has no real competitor. It is a super fabric tire built for long, hard service on small cars. Regardless of road conditions or of any ordinary overload, on an established average it outwears from two to three tires of other makes.

This tire is made with an extra layer of fabric and a heavy, special tough red tread which is responsible for its extraordinary service and for its fame.

You cannot find a user who "knocks" the Fisk Red Top—you can find thousands to praise it beyond all other tires.

There's a Fisk Tire of extra value in every size, for car, truck or speed wagon.

Time to Retire? (Buy Fisk) (Circled Mark on U. S. Pat. 1922)



FISK RED-TOP CLINCHER TIRE

Extra Ply of Fabric Extra Heavy Tread