### NEWEST NOTES OF SCIENCE

Japan is discovering that it pos-

sesses many mineral aprings rich in radium emanations. Shoes with aluminum soles have

been invented for persons working in water or damp places.

France makes elementary instruction obligatory for all children between the ages of six and sixteen. More than 1,500,000 electric storage batteries are used in automobiles

in the United States. British scientists are studying a mineral found in Wales that emits a faint light in its natural state.

A library table that unfolds and forms a full-sized double bed is a furniture novelty of recent invention. Brazil has the largest known deposit of 70 per cent, iron ore, practically free from phospherus, in the

world. An inventor has patented a small phonograph needle to intestfy the chips toward the centre and thus

Fiber useful in textiles and cordage has been extracted from the water hyacinth of Indo-China by a Frenchman.

To pump water out of places into which it leaks there has been invented an electric pump controlled by

Extensive deposits of lignite have been discovered in Sicily and mining of fuel of excellent quality has been

A new spring snap for harness and other purposes is made from a single piece of steel wire twisted and suit-Bombay will erect huge mirrors at

warn traffic of vehicles approaching from around corners. A Philadelphia market gardener is the inventor of a machine to wrap

rhubarb in heavy paper to save the Experts have estimated that Spain mined iron ore, capable of yielding

about 50 per cent. of metal. In a new form of electric fan vertical blades draw in the air from beneath and distribute it equally in all

Spain is studying its large deposits of peat with a view to utilizing the material for the production of both gas and electricity.

For overpowering refractory prisoners an inventior has patented a pogas when a button is pressed. Sweden is having its alum shale

deposits investigated by experts in the hope of obtaining illuminating oil, sulphur and other products. Around the handle of a new umbrella is a soft rubber ring that holds

the ends of the ribs firmly and neatly when the umbrella is closed. Radium emanations, according to a Paris surgeon, are useful after operations to destroy diseased cells that

the knife may have missed. An Oregon power development plant has the world's largest chain drive, eight chains, each 21 inches per cent. transmitting 5,000 horse-

One set of copper mines in Cuba ously on an extensive scale ever since the ore was discovered in 1520.

A device to be attached to a plug of tobacco to bite off pieces and thereby save its user's teeth has been patented by an Oklahoma inventor. A waterproof electric motor has been invented by an Australian to drive brushes against the hulls of vessels to clean them without dry dock-

Patents have been granted a Saint Louis inventor of an electric alarm that sounds when rain begins to fall in windows left open for ventilation. Two bridges in a city in India are supported upon large metal tanks, which float upon the water and accommodate themselves to its rise prevent wrecks caused by rails and fall.

Inside a new hand bag for women is a mirror and a tiny, dry battery fed electric lamp, which is automatically switched on when the bag is opened. The Italian city of Milan has changed from gas street lighting to electricity, generating its current by Alpine waterfalls, nearly 100 miles

A California inventor has patented



Gin Pills banish backache, no matter how severe. The effect, understand, is not to numb the pain, but Gin Pills go right to the source of the trouble, the Kidneys, restoring the natural functions of these organs, and with the blood purified, and inflammation

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front wheel brake for automobile that can be used without interfering with the operation of a car in an

An increase in parasitical disease among poultry and game birds in England is attributed to the distribution of dust through the air by

Investigators have found that electricity applied to soil that has been dampened with salt water will destroy insects without injury to grow-

ing crops From a mixture of sugar cane refuse and bamboo fiber a Trinidad planter has succeeded in making a paper equal in quality to the best

wood-pulp product. A reel to be attached to an auto mobile wheel has been invented to enable a lineman to pick up or pay out wire much more rapidly than can

be done by hand. According to two French scientists a raw-food diet increases the white blood corpuscies, which play an imporant part in the fight against dis-

The inventor of a new auger bit has made it thick at the edges and thin at the centre and claims it will force the

To prevent the absorption of dampness from the ground by stone buildings a new European practice is to cut slots in their walls and insert asphalt coated lead plates.

A Wisconsin boy is the inventor of portable equipment to enable a person to connect with any telephone or telegraph line and either talk over it or use telegraph instruments.

Europe's largest dam, a reinforced concrete structure 330 feet high and 700 feet long, recently was completed in Spain by American engineers for power and irrigation purposes.

A Connecticut inventor's match box consists of two cylinders, one within the other, and with slots cut in their sides through which a match drops when the slots coincide.

For surgeons and dentists an Ohioan has invented an electric lamp mounted on an adjustable bracket which concentrates its rays through a system of lenses contained in tube.

To protect the bases of telegraph poles against decay a new French practice is to surround them with earthenware pipes and fill the pipes with melted resin, which solidifies and becomes waterproof.

Almost a whole gymnasium is contained in a new chair in which a seated person, by pulling straps over his shoulders, manipulates lever and weights and exercise most of his An Arizona scientist will try to fix

the time of the cliff dwellers' era by comparing the age rings in the tree trunks still standing in their homes with the rings in the oldest trees now

Coal deposits that have been discovered in Iceland are being developvestigating deposits found on the Bear islands, between Spitzbergen and Norway.

According to a Paris mathematician the adoption of Greenwich time as the standard for France has increased the lighting expenses of every French household about one

Sanitary advantages are claimed for a Detroit inventor's shaving mug in which the pressure of a plunger forces a portion of liquid soap out of operated almost continu- a dust proof chamber into a main

The British board of trade has given its approval to a new single davit, which launches a boat from a vessel with a sling and releases it automatically as soon a it touches

A new aeroplane motor is provided with a starting crank that can be operated from an aviator's seat and with a muffler to deaden the sound with a loss of only four or five per

cent of power. The inventor of a steel railroad tie that also serves as a cattle guard claims it can be laid in half the time required for a wooden tie and will

spreading. Introduced into Bohemia twelve years ago, the American mushrat has spread over a wide area and now is regarded as a serious pest, the government advocating the destruction of the animals wherever found.

A new European record for the most heavily loaded train recently was established by a Russian railroad on which an American locomotive hauled a train 2,800 feet long with a load of 4,424 tons.

To increase the traction of an automobile wheel and prevent skidding a Washington inventor has patented a bread fabric belt to be passed over a tire and a small pulley to be mounted under a running board. A bumper to stop railroad cars has been invented that consists of a series of curved elevations in the track which gradually reduce the speed of a car, the last one being high enough to halt the car.

The Turkish Government has taken up a project for the irrigation of nearly half a million acres of the Adana plain, the Cilicia of antiquity, at a cost of \$17,600,000 and eight or ten years of work.

The United States bureau of fisheries is planning to transport 8,000,-000 humpback salmon eggs from Alaska to rivers in Main and a carload of lobsters from the latter state to Vashington coast waters.

Tests by a Swiss city of the relative fficiency lamps for street lighting were decided in favor of the latter, chiefly because more agreeable to the

A ferryboat that transports autonobiles across a river in Washington wheels of a car and connecting them by belts to machinery that drives the boat's paddle wheels and propeller. The available water power of Euro-i pean Russia, including Finland, the Urals and the Caucasus, has been es-

imated by Government experts at 30,000,000 horsepower, of which cording to a French scientist, because scarcely 250,000 horsepower has the oils that produce the perfume are been utilized.

For the most rapid photoplay a the plant cells and this is diminished camera has been invented in which by sunlight.

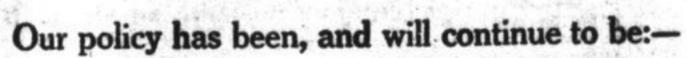


## Shoe Dealers are Entitled to Higher Prices for Some Brands of Rubbers



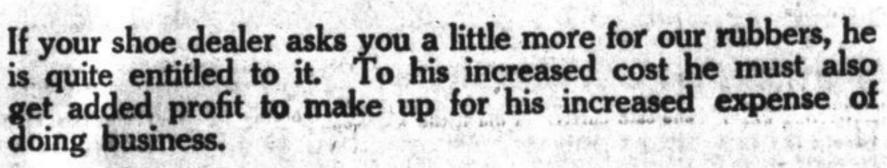
On a great many of our lines of Rubber Footwear there have, of necessity, been small advances in prices, for these reasons:-

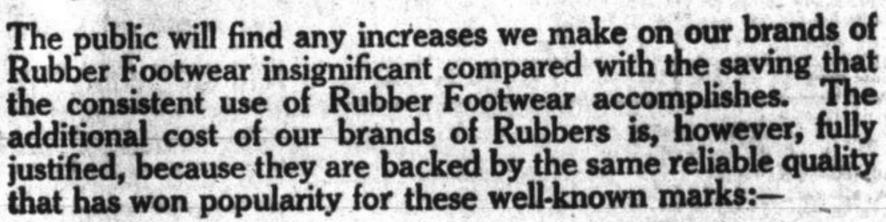
Since the war the price of crude rubber has fluctuated, registering as much as 40% advance and then sagging back almost to 1914 figures. But ocean and freight rates on it have doubled-marine insurance is away up-and then there is the War Tax. Moreover, cottons used in rubber footwear are up 25% to 100%, chemicals 25% to 300%, dyes a good deal more than that, and labor is scarce and higher paid. All these items must be included in our costs.



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To maintain, as long as we can, stability of prices to dealers, advancing just as little as possible considering the higher manufacturing cost.







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the film is automatically shifted by An auxiliary set of wire net blades the shutter closing and which is fit- in a new electric fan is driven by the ted with a pistol grip to aid in aim-lair moved by he regular blades and ing it, at the same time keeping it passes through a tank of water, level.

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