

### Newest Notes Of Science

An Australian engineer has invented an engine that is run by sewer gas.

A recently patented hanger for mothproof clothing bags also seals them securely.

Swedish iron ore deposits have been estimated by experts to contain 1,300,000,000 tons.

A new material for machinery bearings is composed almost wholly of lead, electrically hardened.

A gum containing from 10 to 20 per cent. rubber has been discovered in the Malay peninsula.

Two ovens of the usual kind and a third on the fireless cooker principle feature a new gas range.

A sugar company's mill scattered throughout the Fiji Islands have been linked by radio telegraphy.

An inventor has patented a sort of backbone of spring wire to stiffen and extend the life of a broom.

Regular transportation of merchandise by aeroplane between Paris and Brussels has become a success.

A new tent for campers is so mounted on a frame that its sides can be raised like awning for ventilation.

The Chilean government is planning to electrify the 60 mile of railroad between Valparaiso and Santiago.

For cleaning out city sewer catch basins a gasoline operated machine carried on a motor truck has been invented.

Automobile tires made of coil fibre for use on brush tracks and off-road routes have been invented in Australia.

An inventor has patented a handkerchief in the center of which is a receptacle for face powder and a powder puff.

Experiments are being tried in India of cooling buildings by forcing air through hollow walls with electric fans.

A new automobile windshield resembles two ship's portholes side by side, either of which can be opened separately.

An experimental plant has been built at Hamburg that obtains power from the rise and fall of the North Sea tides.

An inventor has patented a pie pan in two sections that can be taken apart without danger of breaking its contents.

The government of the Bahamas

is trying to revive the production of sea island cotton, once a flourishing industry.

For drying grain before grinding a European inventor has inserted an electric heating element into a spiral screw to convey it to the mill stones.

A low truck upon which a ton of hay can be cured in the field and easily moved is the idea of a Mississippi farmer.

Victoria is electrifying its railroads at an expense to that Australian state that eventually will exceed \$30,000,000.

A seven-pound electromagnet which will lift fifteen times its own weight has been invented for many uses about machine shops.

By raising 2-2 feet the dam which impounds water for Bombay its capacity was increased 19,800,000 gallons.

Specimens of all species of mosquitoes found in army camps will be displayed in the army medical museum at Washington, D.C.

An Australian has invented a waterproof motor to drive brushes against the hulls of vessels to clean them without dry docking.

According to a North Carolina chemist a palatable oil equal in food value to olive oil can be obtained from crockle bur kernels.

A machine has been invented to finish thin drinking glasses by subjecting their edges to heat, which prevents them from being sharp enough to cut.

Rubber models of essential parts of cows have been invented in England to give girls who are learning to be milkmaids practical instruction.

An inventor has patented a two-armed garden cultivator that can be adjusted for width or the arms straightened at right angles so it serves as a rake.

Because so few typewriter inks are indelible or unalterable the Venezuelan government has forbidden the official registration of typewritten documents.

Goggles for motorists and sportsmen have been invented that are suspended from the vicer of a cap without any attachment for their wearers' ears or noses.

To eliminate the glare from street lights an English engineer proposes to illuminate cities by the reflection of light thrown on the fronts of buildings.

Sensitive automatic temperature and humidity regulating apparatus is claimed to reduce to a minimum the losses from irregular drying in a new lumber kiln.

Waterproof garments made of chemically treated cork are a new French invention, having the advantage over rubber of being porous and permitting ventilation.

A new ferrule for crutches, wooden legs or canes is so tipped with rubber and contains a coiled spring inside of tubing so it revolves as well as being resilient.

Government officials in India are considering the use of submarine boats from which men can be released to gather pearl shells from the bottom of the ocean.

A folding wire head rest which can be attached to the back of a cap has been invented for the comfort of men who have to lie on their backs under automobiles.

Wood block paving is growing in popularity in the United Kingdom for the reason that it shows longer life under heavy automobile traffic than any other smooth pavement produced at equal expense.

An Englishman has invented a device to calculate the money value of one country in the terms of others and apply the values to various weights and measures.

Two Californians have patented a device that measures a pipeful of tobacco from a pouch without contact with a user's fingers.

A Spanish government commission has practically completed plans for a national system for the production of electric current from waterfalls and its distribution.

A table for invalids has been invented which can be clamped to the head of a bed and swung into position for use or out of the way without taking up any floor space.

Norwegian scientists have patented a secret process for producing 98 per cent nitric acid from the 30 per cent acid they have been making from atmospheric nitrogen.

For work above step ladder range a portable telescope tower has been invented, composed of extension ladder that can be raised forty feet, carrying a platform with them.

Gasoline locomotives that are safe to use in coal mines have been invented in England, their ignition taking place inside of tight boxes and their exhaust through water.

An inventor has patented an electrically driven machine which makes the rough clay boxes in which pottery is subjected to heat in kilns, work heretofore, done slowly by hand.

Japanese emigration to Brazil has been steadily increasing for the last ten years and this year the far eastern empire is expected to send 9,000 persons to the South American republic.

To aid aviators a New York physician has invented an instrument that tells direction of flight, the points of the compass and angle from the perpendicular at which a plane may be traveling.

For the comfort of traffic policemen an inventor has designed a stand on which there is a seat and an umbrella, which also serves as a sunshade, the usual semaphore being mounted above the latter.

To do away with grease cups on the chassis of motor trucks a New Jersey inventor has designed a lubricating system using heavy oil, which is fed to needed places from reservoirs through wicks.

Bread made with sea water instead of fresh water salted keeps fresh longer, according to a French scientist, and is more wholesome.

Paris has placed an aeroplane ambulance in service to carry accident victims from outside the city to a centrally located hospital.

A Buffalo inventor has patented a machine to wind narrow rolls of paper for the backs of barbers' chairs from wider and cheaper rolls.

To teach a golf player to make strokes correctly a machine has been invented to hold his head in the right position and guide his body.

The production of hemp in China, the original home of the plant, is greater than that of any other country except Russia in normal times.

Pressed down only part way, a Virginia inventor's automobile pedal throws the clutch; pressed down all the way, it applies the brakes.

France again is studying from a technical standpoint the possibility of making Paris a seaport by deepening the Seine or building a canal.

The thermos bottle principle has been applied by a Wisconsin inventor to a lunch pail that keeps food hot in one section and cold in another.

The Diesel oil engine, which is working successfully in water craft of almost all tonnages, is to be thoroughly tested on European railroads.

The inventor of a backless waistcoat that has only a narrow band at the waist line claims it will improve the set of a dress coat with which it is worn.

New Zealand has several rich deposits of quicksilver and to increase its production the government has offered a substantial bonus for the first 100,000 pounds retorted.

The new radio station of the United States navy in Hawaii is believed to be the second most powerful in the world, as it communicates clearly with a station 4,700 miles distant.

It is estimated that the Victoria falls of the Zambesi river in Africa could be made to furnish 35,000,000 horse-power, more than is derived in the world today from coal and oil.

For use of interurban railroad way stations a Missourian has invented a semaphore signal that cannot be operated until a person drops a coin in the slot for the purchase of a ticket.

A Spaniard is the inventor of a torpedo which switches on an arc searchlight in its nose after it has been launched, illuminating an enemy ship so it can be fired on in the dark.

For the use of police a camera has been invented that photographs finger prints wherever they may happen to be, providing its own light by a dry battery electric lamps inside its case.

Of European invention is a smoke consumer for factories in which the smoke is driven by fans into a porous receptacle over which petroleum flows and is converted into a combustible gas.

A Massachusetts city is experimenting with a portable hospital that is conveyed by motor vehicles to the scene of a disaster instead of removing injured persons to a hospital by ambulances.

An automaton figure of a man, built in Paris for advertising purposes, can be given more than 5,600 poses by electric motors in its base, while a concealed phonograph makes it speak and sing.

An attachment for motion-picture projectors has been invented that automatically displays captions or other inscriptions on screens at the right time without interfering with picture themselves.

Electric apparatus has been invented by a Swiss that employs magnetism to pack nails in boxes in regular layers and thus save about half the space required when they are placed loosely in kegs.

The use of coal gas instead of gasoline for motor fuel is rapidly increasing in English cities, despite the fact that engines that are driven by it develop but 90 per cent. of the power obtained from gasoline.

For draughtsmen an inkstand has been invented which covers each bottle with a disk from which a quill projects into the ink, pressing buttons lifting disks and quills so that ink can be inserted into drawing pens.

German sugar manufacturers have offered substantial cash prizes for improvements in harvesting and unloading sugar beets, one that amounts to \$2,380 being for the best apparatus and process for drying their leaves and tops.

Without using springs or rubber a New Jersey man has invented a resilient wheel, the rim of which is composed of hinged feet mounted squarely on the spokes and surrounded by a cable that yields as each foot touches the ground.

A new amplifying attachment for telephone receivers which permits the instruments to be used without being held in the hands is connected to a receiver by slightly raising it from its hook and terminates in a horn besides the transmitter.

Carrying Spark Plugs. Do not permit spare spark plugs to rattle around in the tool box at the risk of breaking the porcelain, knocking off the terminal or jamming the points together. You may want them in a hurry. Plugs should be given proper care. A good carrier may be made in a few minutes. Take a piece of soft pine two inches wide and long enough to bore in as many holes as required.

Use Inter-Liners. After a casing has been long in use, sometimes stretching develops, so that it takes longer to inflate it. A stretched tire should not be pumped up too tight and incidentally it is best to fit such casings with inner liners. By this means a good many more miles can be gotten out of them.

### Vulcanizing Done Right

That's the way we do it and our prices will please you too. Call and give us a trial order.

**MICHELIN TIRES**—all sizes always in stock.

**ATTWOOD & DINE**  
277 BAGOT ST. Phone 410w.

### NOTICE TO THE PUBLIC

Having purchased interest of Victor Drake, formerly partner of the Firm of McALLISTER & DRAKE, all accounts due the above firm previous to July 13th, 1921, will be payable to E. McALLISTER. Business will be carried on as usual under the name of "PRINCESS STREET GARAGE."

**EDMOND McALLISTER, PROPRIETOR.**

### Some Bargains

- 1 Ford Roadster, 1916, with seat covers.
- 2 Ford Roadsters, 1918.
- 1 Ford Touring, 1918.
- 1 Chevrolet Touring, 1918.

These cars are in excellent shape, freshly painted and all good tires. We invite you to inspect them and find out terms and prices.

### VanLuven Bros.

Phone 1609. 34-38 Princess Street.

### Steam Vulcanizing For Tire and Tubes

FOR QUICK AND GUARANTEED REPAIR SERVICE. TRY US. DROP IN AND SEE OUR SPECIAL CAR WASHER.

**W. D. Johnston**  
FREE AIR - Phone 881w. 70 PRINCESS STREET. 4 doors above King Street

### PROUD OF HIS JOB

is the expert vulcanizer, who makes over Auto Tires at our establishment. When he gets through with a tire-it looks like new—one from the tire factory. You can get the full benefit of his skill and knowledge and a big saving in miles and tire usage.

**Suddaby Bros.**  
Cor. Queen and Wellington Sts. Phone 1988

### Blue Garages, Limited

We have for sale at bargain prices:—

- 1 Chevrolet F. A. Baby Grand.
- 1 Reo 5 passenger.
- 1 E45 McLaughlin.
- 1 4 Cylinder McLaughlin 5 passenger.
- 1 Chevrolet Truck.

These cars in good running order and will stand inspection.

Come and see them and make an offer. We purpose selling these cars this week. Get in on a good bargain!

### Blue Garages, Limited

Thos. B. Angrove, Manager.  
CORNER QUEEN AND BAGOT STREETS. PHONE 567.

### Epidemic of Dysentery

It affects many people more in winter than in summer—in the one case it is due to improper eating—in the other, to congestion excited by cold. A small dose of good, old Nervilleine repeated a couple of times usually removes the trouble very promptly. If there is pain, relief is almost immediate. For cramps, colic, stomach pains, and the like, Nervilleine in sweetened water is certainly a wonder. 35c. at all dealers.

### Portsmouth Gasoline Service Station

BEST GRADES OF OILS AND GREASES

**George Granger**  
Phone 120.

### TAXI FOR HIRE

Special prices for out-of-town trips.

**G. C. MILLARD**  
30 Main Street  
Phone 2351w.

### RAY

THE Ray Battery Company, of Ypsilanti, Michigan, have selected this service station because of our facilities and ability to render prompt battery service. It shall always be our policy to be courteous, prompt, and efficient in all of our dealings. Because we have given our customers a square deal in the past, is the reason why our business has grown and will continue to grow.

"Our faith in the Ray Battery permits us to recommend the Ray to you. Come into our service station for free water and tests and learn about the famous Ray."

**M. LAWSON**  
110 CLERGY STREET  
Phone 275.

The United States bureau of standards has developed a machine that tests samples of sole leather under conditions very similar to those encountered by boots and shoes.

The Uruguayan congress has appropriated about \$125,000 to fight locusts the coming season, the army as well as an organization of farmers having charge of the work.

For cleaning the inside of bottles a French inventor has made a brush that can be adjusted to any angle from its handle by a screw running through the latter.

The governor of Pennsylvania has headed a movement to try to save and make useful for industry the billions of feet of gases that are wasted in coal mines annually.

a **Cut Plug Tobacco** of Wonderful Value & Quality.

# ROYAL NAVY

**CUT PLUG SMOKING TOBACCO**

**1/11 lb. packet 15 cents**  
**1/2 lb. tin 80 cents**