

THE ELECTRICAL WORLD

NEW ELECTRIC ROCK DRILL

Claimed to Combine Ruggedness of Air or Steam Devices With Flexibility and Efficiency.

A new electric rock drill, claimed to combine the ruggedness of the air or steam drill with the efficiency, flexibility and economy of electrical power, utilizes compressed air as the medium transmitting the energy from



Electric Rock Drill.

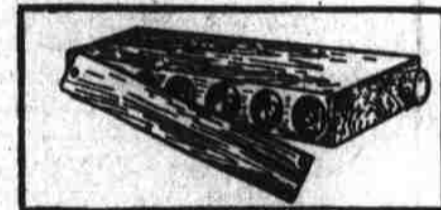
the motor to the plunger. This air is not exhausted from the drill, but is retained to act continuously as a cushion between the piston of the plunger and the motor-driven reciprocating cylinder in which it operates, says the Popular Mechanic.

The cylinder is connected to the motor through gearing and makes about 500 strokes per minute. Flexibly connected to this cylinder through the compressible air cushion at each end, is the head of the piston, which, of course, makes the same number of strokes per minute. The difference between this drill and the ordinary air-drill is that the cylinder in which the air acts upon the piston is movable instead of stationary, and the compressed air is retained to protect the mechanism from shocks from the plunger, instead of being allowed to escape after having performed its work at the end of each stroke.

USEFUL IN CARRYING COILS

Description of Contrivance for Keeping Telephone Coils Safely While in Tool Bag.

A writer in *Telephony* describes a contrivance for carrying induction and ringer coils so as not to have them injured by tools in the bag. Take a piece of 2x4-inch pine of any desired length and, by using an expansion bit, drill holes just the size



Telephone Coil Carrier.

of each coil, so as to prevent rattling around. An additional coil may be carried by drilling a hole in the end of the block and plugging with a cork. A strip secured by two screws serves as a cover.

Best Light for the Eyes.

According to scientists, the least injurious of present-day illuminants is the acetylene flame, for the reason that it is the nearest approach to the character of daylight. For reading or writing purposes the oil lamp or candle is the best, because of its soft, yellow light. Daylight, of course, is the ideal. It is a mixture of all colors, and, as far as the eyes are concerned, the green, yellowish rays predominate. It is the invisible and ultra-violet rays that are so harmful, and in daylight there are not enough of these to hurt. Of the various forms of electric light, the violet is the most harmful.

Electric Signs for Churches.

Many churches are adopting electric signs, says a writer in the *National Magazine*. Why should not more of them bring their location and vocation to the attention of the public by this method? There are thousands of strangers in our large cities each night who would be glad to participate in devotional services if they were attracted by an electric sign a few blocks distant. It would seem that our churches can increase their usefulness to the general public by publicity of this nature.

Our Electric Railways.

There are 1,250 electric railways in the United States. They operate 35,000 miles of single track, 75,000 cars and carry 10,000,000,000 passengers a year. The gross annual income of these roads is \$440,000,000, their capitalization is \$4,000,000,000 and they employ 225,000 persons, whose pay amounts to \$150,000,000 a year.

Japanese Electric Works.

Japan has 879 electric works, using 400,000 kilowatts of electric power, all the progress of only twenty years. The number of electric railways is thirty-one, with a trackage of 567 miles. Telephone subscribers number 102,782.

POOL AND BILLIARD TABLE

Frame is Adjustable to Different Dimensions and Has Provision for Side Pockets.

A Pennsylvania man has invented a combination pool and billiard table that is nothing less than startling in its mutability. The same article can be used not only for both pool and billiards, but it can be used on floor or table and, finally, can be folded up and stood in a closet when not wanted. All these things are made possible by the fact that the bed of the table is a single strip of heavy rubber that when stretched taut along the bottom of the frame provides a firm, level surface. The frame is adjustable to different dimensions and has corner pieces that are inserted for billiards and removed for pool, when pockets are adjusted at the corners. There is also provision for side pockets. Furthermore, the cue is adjustable to different lengths. This table can be used in the house or out of doors, on land or on water, and when not in use can be stood up out of the way. For floor playing a ball attachment is fastened to the end of the cue.

COMBINED CROWBAR-TRUCK

Used in Sets of Three for Moving Heavy Loads About—Quite Useful in Factories.

A combination crowbar and truck has been invented for moving heavy articles about in workshops, factories and warehouses. While the articles can be used separately, they are usually employed, in sets of three, as they thus preserve a better balance for the load and expedite its handling. At the end of a long, strong handle are two stout iron rollers, covered with an iron casing, with a spike set near the tip. This spike prevents the



Crowbar Also Truck.

load from slipping, and yet is so short to do any damage. The truck-crowbars are inserted under the object to be moved and by bearing down on the handles the load is lifted clear of the floor and can be wheeled to any point desired. Articles weighing three or four tons can be trundled about on these trucks as easily as an ordinary packing case. Even in shops equipped with travelling cranes these implements will be useful.

Dirty Windows Exclude Light.

A German professor has ascertained that in industrial cities windows which have not been washed for ten days exclude from 35 to 48 per cent. of the light. If not washed for four weeks, they may exclude as much as 80 per cent. of the light.

INDUSTRIAL AND MECHANICAL NOTES

Buenos Aires is the largest hide and wool market in the world.

Ninety-seven American manufacturers have agencies in Madrid.

Tokio, Japan, intends to spend nearly \$15,000,000 on drainage works.

Stoves burning alcohol are being introduced into Canada by Germans.

Sandstone will absorb a gallon or more of water to the cubic foot of rock.

A large Hamburg restaurant is housed in a building of compressed paper.

A file may be kept from filing up with lead by applying a coat of thin oil just before filing.

At a recent gem exhibition in London there were shown blue, pink and aquamarine diamonds.

Sheet aluminum makes better vise jaws for handling soft metals than either brass or copper.

So-called burglar proof glass, made in France, withstands revolver bullets and blows from a mallet.

Approximately one-third of the world's supply of copra now is being produced in the Philippines.

Lime was one of the earliest materials used to improve the soil, being mentioned by Plato and Pliny.

For the first time in the history of the industry in that state Ohio mined more than 30,000,000 tons of coal last year.

In a stone arch bridge recently built in France molten zinc was used to bind the stones together instead of cement.

Light but strong waterproof paper that successfully imitates leather and rubber is made in Japan from vegetable fibers.

London requires taximeters to be connected to the front wheels of taxicabs because the rear wheels do the most slipping.

His Natural Self

If anybody had given a party with a prize for the most helpless husband there was not a bit of doubt that Dockity would have gone home with the prize under his arm. This was an indisputable fact, for his wife said so and she should have possessed expert knowledge on the subject.

"If you should turn James Dockity loose in the middle of a desert," she often said, "with an oasis in plain sight, that helpless man would turn and walk the other way and die of starvation. Here I am, wearing myself to a shadow remembering to remind him of what he ought to do or telling him where he put his pink striped shirt or getting him more towels when those in the bathroom have slipped down back of the tub! You'd think that the man never heard of the back of the bathtub the way he forgets to reach behind it! He's more trouble than a family of ten children! I declare, his helplessness dooms me to become old before my time."

He never knew where he had put his umbrella when there was a rain-storm that he had to go out in. He was petrified with a dismal sort of horror if he had to hunt out his own apparel. It was on record that once when they were dining out and Mrs. Dockity had gone on ahead to spend the day he didn't come. When finally they telephoned him he told his exasperated wife with tears in his voice that somehow he couldn't possibly get a white tie on that looked right.

"Where are you getting your dress ties from?" Mrs. Dockity inquired with an awful premonition.

"From the little drawer to the left in the top of the chiffonier," recited Dockity, pathetically.

"Those," breathed Mrs. Dockity over the phone, "are my white summer belts! Look in the drawer below!"

She often said with pathos that if James would only reform she would be the happiest woman on earth.

It was nothing short of tragic then when Dockity had to go west on business and his return was delayed three months. Mrs. Dockity worried incessantly over him. "If he wasn't so helpless," she said, "it wouldn't be so bad, but he'll lose everything he has and will come home with his cuffs tied on with strings! He won't be able to find a thing and nobody will look out for him and he'll leave a pair of pajamas hanging in the closet of every hotel room he's in! I'm afraid he won't get enough to eat, because he never knows what he wants and always insists on my picking out things on the bill of fare."

When at last Dockity returned home his wife looked him over fearfully. His coat was on right side up and his right shoe was not upon his left foot. He was wearing his own hat, his linen was presentable and he was short only one pair of pajamas.

"Do you feel well, James?" Mrs. Dockity asked, anxiously.

"If I felt any better," declared her husband, "I'd be sick abed from it!"

At breakfast Dockity put sugar and cream on his berries as nonchalantly as if he had always known how. He picked up his umbrella from behind the door and produced his gloves airily. When he had gone Mrs. Dockity sat down and breathed hard. She could not understand it.

That evening it was still worse. Dockity dressed without once asking where anything was. When his wife said that she had come to put in the shirt studs Dockity looked surprised and said they were already in. He even got out his silk hat and brushed it, whistling cheerily, while Mrs. Dockity stood around making futile efforts to help him.

She was pale and not herself all evening and persisted in trumping her partner's ace. When they started home not only did her husband find his own wraps, but he got hers and helped her into them.

She did not speak all the way home. When Dockity turned out the hall lights instead of waiting for her to do it she fled upstairs to hide her emotion.

Just when Mrs. Dockity had reached the point where she decided that the queer feeling which possessed her meant that she was going to die Dockity came with hesitating steps into the room.

"Dear," he murmured, "I can't find the soap—it isn't in the soap dish—and where are my bedroom slippers?"

It was then that his wife cast herself upon his bosom and dissolved in a flood of tears. "It—it's p-p-probably slipped down on the floor!" she sobbed. "They—they're in your closet behind your g-g-golf shoes! Oh, James, you haven't seemed natural till this minute! I thought I'd lost you! I don't like to have you look after your yourself! It doesn't seem natural!"

"Well," grinned the enlightened Dockity, "I wouldn't worry! I guess I haven't reformed enough in three months so you'd really notice it! Say, I wish you'd help me—I can't get this blamed tie loose!"—Chicago Daily News.

Self-Evident.
"Why do you call that hen by such a name as 'Mae'?"
"Because I want her to lay on."

INDUSTRY AND MECHANICS

HANDY RULER FOR PAINTERS

Of Much Assistance in Keeping Straight Line While Working on Edge of Wood.

One of the most difficult parts of the house painter's work is to paint the edge of woodwork abutting wall paper, windowpane or floor. Heretofore they have had to work carefully



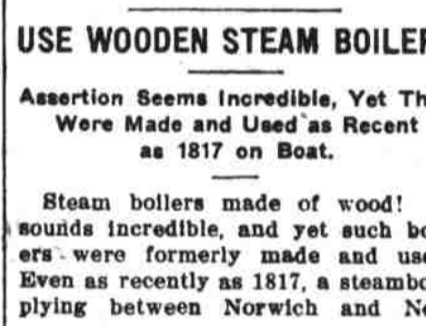
Ruler for Painters.

along the edge and fill in later. A New York man has invented a device which he calls the painter's time-saver, and which is in reality a ruler to guide the brush and prevent the smearing of anything over the line to be followed. The device is a piece of metal with a wide, straight edge and legs at the other end. The elevation affords room to hold it in the hand. The ruling edge is held along the edge of window sash or door jamb and the workman can paint along it rapidly without fear of consequences. The implement must be pressed down tight, so no paint works its way beneath. For people who like to do their own painting one of these rulers is almost indispensable.

USE WOODEN STEAM BOILERS

Assertion Seems Incredible, Yet They Were Made and Used as Recent as 1817 on Boat.

Steam boilers made of wood! It sounds incredible, and yet such boilers were formerly made and used. Even as recently as 1817, a steamboat plying between Norwich and New



Wooden Steam Boiler.

London, Conn., was equipped with wooden boilers, and the reason that they burst under "extreme" pressure was attributed principally to the fact that they had no "condensers, safety valves, or balance wheels." From 1801 to 1804 there was a wooden boiler in service at the Center Square water works, Philadelphia. A partial view of this boiler is shown herewith. The ash pit, fire box and flues were made of iron, but the inclosing box, in which the water was contained and the steam generated, was of wood. The steam pressure used was very little above that of the atmosphere, but the difficulty of preventing leaks even with this small pressure led to the early abandonment of wood as material for steam boilers.

Ticket Printing Machine.

Railway ticket printing machines are shortly to be installed at a Birmingham (Eng.) station. The booking clerk, when requiring to issue a ticket to any station, takes a blank card, places it in a slot in the sliding carriage, and moves it along until the pointer is opposite the alphabetically arranged name of the required station. He then depresses a handle, and the ticket drops out, printed with the names of the issuing and destination stations, price, date, consecutive number, class, etc., while an automatic register of the operation is made at the same time.

Coating With Metal.

A new method of coating various substances with metals, the invention of a Swiss engineer, consists in reducing molten tin, zinc, copper, lead, aluminum, or other metal or alloy to a state of pulverization by pressure of an inert gas—nitrogen or hydrogen—and in that state driving it against the surface to be covered from a flexible tube with a tip like that of a large vaporizer for liquids.

Paper Mills in India.

Paper mills in India have not been very profitable, as the raw material has to be brought from long distances and the cost of freights eat up the profits. India's import of paper and pasteboard in 1910 fiscal year was of the value of \$3,284,900. Bamboo for paper making there is suggested.

JUNE WEDDINGS

Pickard China



See our line of Pickard China and Gorham Silverware for Wedding Gifts.

We give white coupons

GREEN'S - JEWELRY - STORE

Tripped His Income With a Motorcycle

A boy carrying "special delivery" letters had been earning \$36 a month in the Chicago postoffice.

He bought a motorcycle and his earnings jumped to \$65 a month.

In the third month he earned \$100.

If swift, safe and sure transportation is needed in your business the motorcycle will do for you what it did for the Chicago boy.

Let us show you how and why. Come in—or write for details.

We sell Indian and Reading-Standard.

Arey Hardware Company.

Salisbury Greenhouses.

We make a specialty of artistic Floral Designs. Prompt service and lowest prices.

PHONE 381.



Meet Your Friends at The Davis White Sulphur Springs

60 miles North West from Charlotte, on Southern R. R., two daily mail trains except Sunday. Electric Lights, Sewerage, etc. The best of Fare, Service and Water. 150 acres of land, dotted with Springs and shady walks. Cool nights; pleasant days. Just the place to rest, recreate and enjoy the summer days. 100 rooms. Outdoor Sports, Mountains to climb; finest of scenery.

Weekly Rates \$8 to \$8, July and August \$8 to \$10. Special rates to clubs and families. Write for booklet to The Davis Springs HIDDENITE, N. C. Open May 15th to October 15th

Willard C. Northrup ARCHITECT

Rooms: 712, 713, 714
Wachovia Bank and Trust Building
Winston-Salem, N. C.

MORTGAGE SALE

Of Spencer Steam Laundry Plant and Equipment.

In compliance with authority given in two chattel mortgages, both executed by J. N. Barringer to Hicks & Smith, one mortgage executed May 5th, 1911, to secure a note to said Hicks & Smith of same date, which said note and mortgage were due and payable September 5th, 1911, and another note and mortgage executed by J. N. Barringer to Hicks & Smith and being dated July 26th, 1911, which said note and mortgage were due and payable January 26th, 1912, both of said mortgages describing the same property and containing a power of sale in case of non-payment, and being registered in the Register's office of Rowan county, one mortgage recorded in Book of Chattel Mortgages No. 30, page 624, and the other in the same book, page 814, default having been made in the payment of both notes;

Now, Therefore, by virtue of the power given in said mortgages, the undersigned will expose to public auction on the premises of the Spencer Steam Laundry at its plant in Spencer, N. C., on

Thursday, the 6th day of June, 1912, at 12 M.,

the following articles of personal property, described in both of said mortgages as follows, to-wit:

The entire plant of the Spencer Steam Laundry, including all machinery, engine, boiler, washers, all apparatus and fixtures; also all wagons and horses belonging to said J. N. Barringer.

Terms of Sale—Cash. Dated this 16th day of May, 1912.

HICKS & SMITH, Trustees.

By Wachovia Bank & Trust Co. (Spencer Branch), Assignee of said trustees.

Clement & Clement, Attys.

NOTICE.

North Carolina, Rowan County. In Rowan County Court. Claude Correll, Plaintiff,

vs. S. E. Cook, Defendant.

Summons for Relief and Warrant of Attachment.

The defendant S. E. Cook will take notice that an action entitled as above has been commenced in Rowan County Court against him by Claude Correll for the recovery of the sum of \$427.50 due to plaintiff by defendant on account of contract, and that the summons in said action is returnable before Rowan County Court at Court House in Salisbury, at 10 o'clock, a. m., on the 3rd day of June, 1912, when and where the defendant is required to be and appear and answer or demur to the complaint in said action. The defendant will further take notice that if he fail to answer said complaint at said time and place, the plaintiff will demand judgment for the relief prayed therein. The defendant will further take notice that a Warrant of Attachment has been issued against him in said action, and that said Attachment is returnable at the time and place mentioned above.

Given under my hand this May 4, 1912.

J. F. McCUBBINS, Clerk Rowan County Court.

Edwin C. Gregory, Atty for Plaintiff.