

Business Cards.

B. W. GREEN, ATTORNEY-AT-LAW, Emporium, Pa. A business relating to estate, collections, real estate, orphan's Court and general law business will receive prompt attention. 42-ly.

J. C. JOHNSON, J. P. McNARNEY, JOHNSON & McNARNEY, ATTORNEYS-AT-LAW, EMPORIUM, PA. Will give prompt attention to all business entrusted to them. 18-ly.

MICHAEL BRENNAN, ATTORNEY-AT-LAW, Collections promptly attended to. Real estate and pension claim agent, Emporium, Pa. 55-ly.

THOMAS WADDINGTON, Emporium, Pa., CONTRACTOR FOR MASONRY AND STONE-CUTTING. All orders in my line promptly executed. All kinds of building and cut-stone, supplied at low prices. Agent for marble or granite monuments. Lettering neatly done.

AMERICAN HOUSE, East Emporium, Pa., JOHN L. JOHNSON, Prop'r. Having resumed proprietorship of this old and well established House I invite the patronage of the public. House newly furnished and thoroughly renovated. 48ly

F. D. LEET, ATTORNEY-AT-LAW AND INSURANCE AGT, EMPORIUM, PA. To Land Owners and Others in CAMERON AND ADJOINING COUNTIES. I have numerous calls for hemlock and hardwood timber lands, also stumpage &c., and parties desiring either to buy or sell will do well to call on me. F. D. LEET.

THE NOVELTY RESTAURANT, (Opposite Post Office), Emporium, Pa. WILLIAM McDONALD, Proprietor. I take pleasure in informing the public that I have purchased the old and popular Novelty Restaurant, located on Fourth street. It will be gay endeavor to serve the public in a manner that shall meet with their approval. Give me a call. Meals and luncheon served at all hours 1027-lyr Wm. McDONALD.

MAY GOULD, TEACHER OF PIANO, HARMONY AND THEORY Also dealer in all the Popular sheet Music, Emporium, Pa. Scholars taught either at my home on Sixth street or at the homes of the pupils. Out of town scholars will be given dates at my room in this place.

F. C. BIECK, D. D. S., DENTIST, Office over Taggart's Drug Store, Emporium, Pa. Gases and other local anesthetics administered for the painless extraction of teeth. SPECIALTY: Preservation of natural teeth, including Crown and Bridge Work.

TIME TABLE No. 27. COUDERSPORT & PORT ALLEGANY R. R. Taking effect May 27th, 1905.

Table with columns for STATIONS, P. M., A. M., and times for EASTWARD and WESTWARD directions. Stations include Port Allegany, Elm, Burtville, Route, Knowlton, Dimsted, Hammonds, Coudersport, North Coudersport, Frink's, Colesburg, Seven Bridges, Raymond's, Gold, Newfield Junction, Perkins, Carpenter, Crowell's, and Ulysses.

The Place to Buy Cheap IS AT J. F. PARSONS' Kodol Dyspepsia Cure Digests what you eat.

Foley's Kidney Cure makes kidneys and bladder right. BANNER SALVE the most healing salve in the world.

POPULAR SCENIC ROUTE. Buffalo & Susquehanna Railroad Company. Official Condensed Time Table in Effect June 23, 1902.

Table with columns for Week Days, Daily, and Week Days, listing stations and times for Buffalo & Susquehanna Railroad Company.

CONNECTIONS. At Keating Summit with B. & A. V. Div. of Pennsylvania R. R. At Ansonia with N. Y. C. & H. R. R. for all points north and south. At Newfield Junction with C. & P. A. Ry. Union Station.

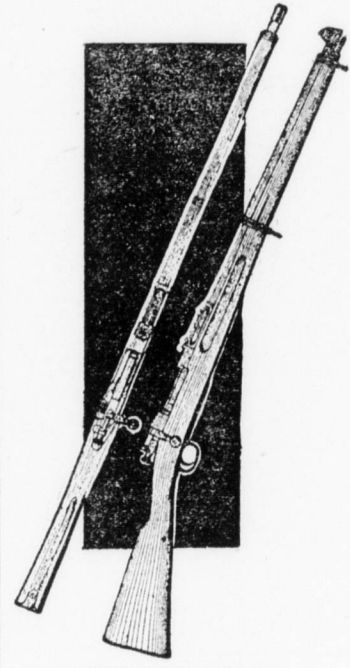
C. G. SCHMIDT'S HEADQUARTERS FOR FRESH BREAD, PIES, FANCY CAKES, ICE CREAM, CONFECTIONERY Daily Delivery. All orders given prompt and skillful attention.

WHEN IN DOUBT, TRY STRONG AGAIN! Serrine Pills. They have stood the test of years, and have cured thousands of cases of Nervous Diseases, such as Debility, Dizziness, Sleeplessness and Variocoele, Atrophy, &c.

SCIENCE AND INVENTION. WORLD'S DEADLIEST RIFLE.

The New Magazine Gun of United States Army Superior to Any Other Gun in Existence.

A new magazine infantry rifle, which experts declare to be superior to any other type in existence, has been constructed and adopted by the ordnance department of the United States army. Nearly 100,000 of the new weapons have already been made in the government arsenals, and the entire infantry service will soon be equipped with them.



THE NEW RIFLE.

result of suggestions made the ordnance officers by the enlisted men of the army. The new gun is several inches longer than the old. The magazine has a capacity of five cartridges, and can be filled with ease and quickness. When fully assembled, the gun weighs a little more than eight pounds, and according to the ordnance experts, is exceptionally well balanced, insuring ease of discharge, and facilitating accuracy of aim.—Technical review.

WHAT MAKES SKY BLUE? Theories Advanced by Scientists as to Its Reflection of Light and Its Color.

The sky has long been a puzzle to physicists. There are two mysteries to explain about it—its reflection of light and its color. The old view was that the blue of the sky was due simply to atmospheric oxygen. Oxygen has a faint blue tint, and the idea was that several miles of the gas, even when diluted as it is in the air, would have a bright blue color. But this did not account for the intense illumination of the sky, and of recent years Tyndall's "dust theory," or some modification of it, has been generally accepted. This regards the blue color as an optical effect, like the color of very thin smoke, due to excessively fine particles floating in the air, which would also account for the large proportion of reflected light from the sky. Recent calculations by Prof. Spring, of Liege, Belgium, however, indicate that the dust in the air is not sufficient in amount, nor finely enough divided, to support this explanation, and he rejects it for this and other reasons. He has gone back to the old blue-oxygen theory, and accounts for the general illumination of the sky on the hypothesis, first advanced by Hagenbach, that intermingled layers of different density in the atmosphere give it the power of reflecting light.—Success.

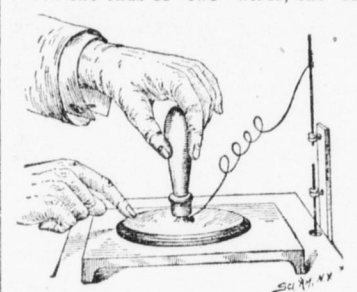
Dead Leaves Turned Into Soil. That the process of decay by which the rich forest mold is formed from fallen leaves is brought about by the vegetable action of certain fungi has been demonstrated recently by C. J. Koning, a Dutch botanist. He has studied especially the action of two species. One begins its work even before the leaves have fallen, appearing on them when they are still attached to the trees. It then grows actively, hastening the process of decay, and by doing produces the well-known odor of fresh earth, which has been attributed by various investigators to other substances. When cold weather comes on, however, this fungus ceases its work, which is taken up by another species that flourishes only in the soil itself and never attacks the living leaf. It is probable that other fungi cooperate with these in soil formation, and that various species of bacteria also play their part.—Success.

How High Can Whales Spout? Recent photographs of spouting whales give a means of measuring with some accuracy the height to which the water is thrown. This appears to be much less than it has often been supposed to be. Dr. G. M. Allen shows that even the great sulphur-bottom whale, on the average, spouts to a height of only 14 feet, although occasionally the height may be as much as 20 feet.

FOR AMATEUR EXPERIMENTS

A Home-Made Wireless Signaling Transmitter That Will Be Instructive.

In a recent issue of the Scientific American an account was given of two home-made wireless telegraph receivers; in connection with these it may prove interesting to your readers who are desirous of making their own experimental apparatus, to describe an exceedingly simple form of wireless transmitter, says A. Frederick Collins.



CHARGING LID OF ELECTROPHORUS.

which projects vertically upward in the air, and the other is connected with the earth; or if the signals are to be sent over a short distance, say 15 or 20 feet in a room, the latter wire may be connected to a bit of tin or copper plate and merely allowed to rest on the floor.

The simplest way to obtain an electric spark is by means of an apparatus called an electrophorus, an instrument for generating static electricity by induction. This little device is usually made of a flat disk of resin on which rests a metal disk having an insulating handle of glass or vulcanite.

Our illustrations show clearly the tin or brass plate and resin disks; and although the former is placed on the latter, their surfaces touch each other in only a few places, since the air forms a thin insulating film which practically separates them.

To construct an electrophorus, it is only necessary to fill a shallow tin pan—a pie-tin answers admirably—with a mixture of resin, Venice turpentine and shellac in equal parts. When these substances are heated to the melting point, they should be carefully done so as to



PRODUCING SPARK IN THE ANTENNA.

prevent the formation of air bubbles. If the turpentine is not readily obtainable, it may be dispensed with. Care must be taken in either case that the mixture does not take fire. When the mass has cooled it will become hard and brittle, and it will then be ready for use. This constitutes the sole of the device. A lid may be made by obtaining from the tinners a disk of tin cut half an inch smaller all around than the resin sole. A stick of sealing wax forms a good handle. The lid may be made of a disk of wood covered with tinfoil, and a handle may be made by attaching to the center of the wood a heavy piece of wire covered with rubber tubing. Either of the former makes a satisfactory lid.

Used as a wireless telegraph transmitter, the aerial or suspended wire should be attached to the metal plate of the lid in such a manner that when the plate is charged, the wire will not touch the sole. The wire leading to the earth or metal plate on the floor should have its upper end attached to a table, wall, or any convenient place, so that the charged lid carrying the aerial wire may be held closely to it, when a spark will pass between the edge of the tin disk and the end of the lower wire, as shown in one of our views. There will then be set up in it and the aerial wire a series of strong electric oscillations, the energy of which will be damped out in the form of electric waves.

In order to charge the metal plate, the resin disk must first be excited by whisking or rubbing it with a piece of hot flannel or a silk pad. After the resin is well rubbed, the tin lid is placed upon it for a few seconds, and the finger occasionally touching it as shown.

Now, on lifting the lid, if the knuckle or wire leading to the earth or floor is presented to it, a spark will pass, showing that the plate was charged. If a receiver, such as either of those referred to, is set up at a little distance, even though the walls of a room or two intervene between it and the electrophorus transmitter, the instant the spark passes a characteristic click is heard in the telephone receiver.

In order to repeat the process, the lid will need to be recharged, and this will require merely the placing of it on the resin sole and removing it again, although the plate will have to be freshly excited occasionally if energetic sparks are to be produced. It will be readily seen that the electrophorus is in fact a simple miniature electric machine.

Racial Characteristics. As illustrating a difference in characteristics it is officially noted that twice as many people in Scotland as in Ireland choose to go to prison for minor offenses rather than pay a fine. In Ireland they pay the fine.

Balcom & Lloyd.

WE have the best stocked general store in the county and if you are looking for reliable goods at reasonable prices, we are ready to serve you with the best to be found. Our reputation for trustworthy goods and fair dealing is too well known to sell any but high grade goods.

Our stock of Queensware and Chinaware is selected with great care and we have some of the most handsome dishes ever shown in this section, both in imported and domestic makes. We invite you to visit us and look our goods over.

Balcom & Lloyd.

LOOK ELSEWHERE BUT DON'T FORGET THESE PRICES AND FACTS AT

LaBAR'S

- \$30 Bedroom Suits, solid oak at \$25
\$40 Sideboard, quartered oak, \$30
\$28 Bedroom Suits, solid oak at \$21
\$32 Sideboard, quartered oak, \$25
\$25 Bedroom Suits, solid oak at \$20
\$22 Sideboard, quartered oak, \$16
A large line of Dressers from \$8 up.
Chiffoniers of all kinds and prices.



We carry in stock the largest line of Carpets, Linoleums and Mattings of all kinds ever brought to Emporium. Also a big line of samples.

A very large line of Lace Curtains that cannot be matched anywhere for the price.

Art Squares and Rugs of all sizes and kind, from the cheapest to the best.

Dining Chairs, Rockers and High Chairs.

A large and elegant line of Tufted and Drop-head Couches. Beauties and at bargain prices.

The finest line of Sewing Machines on the market, the "Domestic" and "Eldredge". All drop heads and warranted.

A fine line of Dishes, common grade and China, in sets and by the piece. As I keep a full line of everything that goes to make up a good Furniture store, it is useless to enumerate them all.

Please call and see for yourself that I am telling you the truth, and if you don't buy, there is no harm done, as it is no trouble to show goods.

GEO. J. LaBAR.