900000000000000000000 First Models of Great Inventions.

80000000000000000000000000000 That vast mausoleum of wrecked opes and blighted ambitions, the model department of the United States Patent Office in Washington, is illum-inated here and there with the original

model room. The patent on peg shoes was granted to S. B. Hitchcock and . Bement on July 30, 1811.

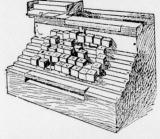
Then there is the first washboard. t is as fresh-looking to-day as when it was first placed in the cabinet, and shows not a particle of corrosion, al-though the name of the inventor was S. Rust, and it was Rust himself who made the model. The patent is dated February 9, 1538. The first arc elec-tric light was made by Collier and models of the very great inventions.

In one of the cabinets is to be seen | Baker, and patented by them May 18, In one of the cabinets is to be seen | 1858. The first incandescent lamp was



FIRST WASHBOARD-FIRST PAIR PEG SHOES-MORSE'S MODEL.

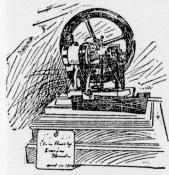
Morse's original model of the telegraph instrument, fashioned by his own hands. The model is very crudely made, but it inspires reverence in the visitor, and even a certain sort of awe when he pauses to think of what the telegraph has done for the advancement of the world, and what a slow universe this would be if we did not have telegraphic communication with our fellow beings the world over. In another cabinet, inspiring the



MODEL OF THE FIRST TYPEWRITER.

same sort of reverence, and bringing thoughts of the days when every bit of sewing in the world was done by hand, is Elias Howe's model of the sewing machine. The visitor uncon-sciously repeats to himself the words of the song of the shirt, "Stitch, Stitch, Stitch," and thinks of the agony of that stitching in the days of Hood, when it was all done by hand.

Elias Howe's first sewing machine is almost as crude as Morse's telegrapl



HOWE'S SEWING MACHINE.

sounder, but in both cases the model operated exactly as described in the specifications, and the patents were accordingly granted.

Not a whit less interesting is the nodel of the first typewriter, the inention of R. T. P. Allen, a Kentuckin. It is still more roughly made than A lucid explanation is the models of the telegraph and sewicides with our views.

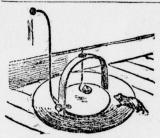
the invention of Gardiner and Blos som, to whom a patent was granted June 29, 1858. Both the arc and the incandescent lights, it will be noticed, were invented in the same year. Nothing could be more different than the incandescent lamp of 1858, and that of

When you happen to be in Washington go over to the Patent Office and spend a few hours looking around the model room. You will find your pains well rewarded.—New York Mail and Express.

Electrocutes the Redents.

The electric mouse trap is the latest

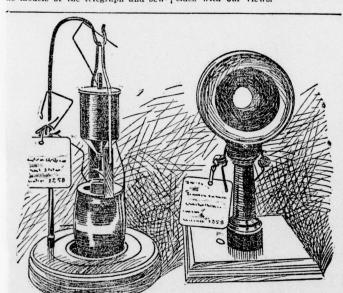
novelty to aid in exterminating the pests which infest dwellings and other buildings, and the inventor intends that it shall be the cause of many a shocking death. There is no complicated mechanism about the trap; in fact, it is so simple that the wary rodent is not at all likely to regard the device with suspicion. Everything is in plain sight, and the animal is not compelled to insert its head in a noose or to enter a cage in order to reach



A VERY SHOCKING AFFAIR.

the bait. In this case the tempting morsel is suspended within easy reach but the instant the electrical current is completed by the rodent itself death ensues without the bait being dis-turbed. The trap consists of two metallic plates connected by wires to an electric light circuit, the plates being insulated by a plate of non-conducting material placed between. The bait holder is suspended from a supporting arch secured to the outer plate. There are numerous small animals which may be captured in this way, and the inventor also intends it for use in destroying roaches and bugs of various sorts. The electrocution is accom-plished by the passage of the current from one plate to the other through the body of the rodent or insect. The inventor of this ingenious device is C.

A lucid explanation is one that coin



IRST ELECTRIC ARC LIGHT AND FIRST INCANDESCENT LIGHT.

ig machine, but it proved to be quite

New Zealand sent Great Britain 1, s important an invention.

The first pair of peg shoes is another valued at \$15,000,000 in the course of iteresting invention exhibited in the last year.

MOST FAMOUS OF DIAMONDS.

nd's Crown Jewel, the Koh-I-Noo Worn by Queen Alexandra The Koh-i-noor, one of the most fa mous diamonds in the world, which used to be worn on special state oc



-NOOR IN ITS PRESENT FORM

casions by Queen Victoria, may be conspicuous again at the coronation. conspicuous again at the coronation.

The King is understood to have ordered it to be placed in the special crown that is being made for Queen Alexandra. The Kohi-noor, which is usually kept among the crown jewels at the tower, was discovered originally in the celebrated mines of Golconda, about the middle of the sixteenth century. It passed through the hands of several Indian princes, and was presented to Queen Victoria in 1849 by Dhuleep Singh, the last native ruler of the Punjaub. The value of this famous gem has been estimated at \$10,000,000.

The Koh-i-noor had a narrow escape before it reached the late Queen. After the annexation of the Punjaub in 1849 it was given up to the British, and at a meeting of the Board was handed to John (afterward Lord) Lawrence in a small box beneath many folds of linen for sare keeping. He placed it in his waistcoat pocket and forgot the treasure. When he dressed for dinner the waistcoat containing it was thrown carelessly on one side. At a subsequent meeting of the Punjaub Board Henry Lawrence suggested to his brother the advisability of at once forwarding the Koh-i-noor to Queen Victoria. John Lawrence had forgot-ten that the diamond had been given him; then suddenly remembering, he quitted the Board with an unruffled countenance, hurried home and incountenance, hurried home and inquired of his manservant if he had seen a small box which had been left in his waistcoat pocket. "Yes, sahib," the man replied, "I found it and put it in one of your drawers." "Bring it here," said Lawrence. The servant produced it. "Now," said his master, "open it and see what it contains."

The old pattive obsered, and after re-The old native obeyed, and after re-moving the folds of linen, he said, "there is nothing here, sahib, but a bit of glass," "Good," said John Law-rence, with a sigh of relief, "you can leave it with me."

Porto Rico's Stone Collars.

The puzzle of archaeologists in the

American Museum of Natural History, says the New York Herald, is what are termed the "stone collars" from Porto Rico. Senor Lopez-Nassa, an erudite native, recently has written entertainingly of other antiquities, and states his belief that they were used for ceremonial purposes. Professor Otis T. Mason advanced the same hypothesis in 1876, soon after the arrival of specimens at the Smithsonian

They are of the same size and shape as an ordinary horse collar, and made



ONE OF THE STONE COLLARS.

of very hard, greenish colored stone They are all more or less ornamented by a knot, or shoulder, on either the right or left side, which is covered with strange figures cut into the hard

gists have discovered the purpose or use of everything manufactured by prehistoric man with the exception of these strange Porto Rican "collars."

"Getting Into a Scrape?"

This popular phrase, involving the use of an English word, in a sense different from its proper meaning, has considerably puzzled English lexicographers.

One, more ingenious than the others, has traced its origin to the game

In the North of Scotland this game is played upon downs, or links, on the seashore, where many rabbits burrow. The small hole with which these ani-mals begin their burrows is called in that part of the country "rabbit scrapes," or simply "scrapes." It often happens, in the progress of

a game of golf, that the ball of some unfortunate player brings up in one of these scrapes and is with difficulty removed. Special rules had therefore to

be made for the player "in a scrape. This would seem an intelligible source for an otherwise rather unintelligible expression.—New York Times.

The city of Portland, Me., has in its streets thirty thousand shade trees some of which were planted more than half a century ago.

STOKER BECOMES A MAYOR.

Dennis Mulvithil Goes From Factory Fur-nace to City Hall.

We herewith reproduce the picture of Dennis Mulvihill, the new Mayor of Braigeport, Conn., who until his election was employed as a fireman in a manufacturing plant at \$14 a week. "'Honesty' will be the watchword of this administration," declared the "stoker Mayor," in his inaugural speech.

Mr. Mulvihill has worked at the same furnace for thirty years. He was born in Ireland fifty-slx years ago. In 1896 he was elected Alderman. He is the first Mayor elected on the Demo-cratic ticket in that city in the last ten years. Mr. Mulvihill was so con-

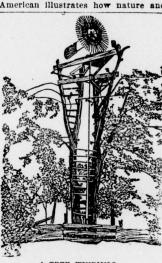


DENNIS MULVIHILL.

fident of success that four days before election he went from the fire pit to the office of the factory and resigned his employment, saying he might be back after two years.

A Curious Windmill.

A windmill is apt to be a very pro-nic and ugly construction, but many attempts have been made with vary ing success to beautify these very useful and economic power producers engraving from the Scientific American illustrates how nature and



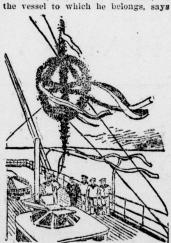
A TREE WINDMILL.

mechanics are sometimes blended. The trees serve only as a support for the platform at the top, and as side rails of a ladder, it being necessary only to provide rounds. The trees serve also to stay the iron support. The wind-mill, which was built by J. G. Benster, of Moline, Ill., is of peculiar constru-tion, there being no gear wheels no crank, the power being transmitted by an involute wheel which is a part of the steel wheel to which the fans are attached. The surface of the involute is perfectly smooth, as is also that of the wheel attached to the pitman carrier, the one rolling upon the other. The mast is of tubing, the pitman being carried down inside. The wires for throwing the mill out of gear are attached to a thimble on the outside of the mast. From this it will be seen that the trees are not needed for actual support.

A number of these mills have been attached to trees and have been giving excellent results. It is also possible to carry the mills around on a wagon and them to work at any part of a field.

British Naval Wedding Custom

By an old custom which obtains in the Navy the marriage of an officer is signalized by the hoisting of a wreath At the present writing anthropolo- of flowers, with silken greamers, on



the London Graphic. For the first time since the new royal yacht Vic-toria and Albert was commissioned the custom has just been carried out on that vessel in honor of the marriage of Lieutenant Mansell, her First Lieutenant, to Miss Louisa Richards, the daughter of a naval captain. At night the wreath was brilliantly illuminated with the electric light.

Prediction That the New Year Will Be One of the Greatest of All Time — Propare For the Future.

Washington, D. C.—In this, Dr. Talmage's first discourse for the new year he speaks words of encouragement to all the timid and doubting. The text is Exodus xii, 2, "This month shall be unto you the beginning of months; it shall be the first month of the year has passed out of sight, and the first month of the year has passed out of sight, and the first month of the new years has arrived. The midnight gate last Wednesday opened and January entered. She deserves a better name, for she is called after Janus, the heathen deity who, they supposed, presided over doors, and so might be expected to preside at the opening of the year. This month was of oid called the wolf month because, through the severity of its weather, the hungry wolves came down seeking food and devouring human life. In the missals of the middle ages January was represented as attired in white, suggestive of the snow, and blowing the fingers, as though suffering from the cold, and having a bundle of wood under the arm, suggestive of the warmth that must be kindled.

Yes, January is the open door of the year, and through that door will come what long processions, some of them bearing palm leaves and some myrtle, others with garlands of wheat and others with cypress and misteloe. They are coming, and nothing can keep them back—the events of a twelvemonth. It will, I think, be one of the greatest years of all time. It will abound with blessing and disaster. National and international controversies of momentous import will be settled. Year of coronation and dethronement, year that will settle Cuban and Porto Rican and Philippine and South African and Chinese destinies. The tamest year for meny a decade past has dug its millions of graves and reared its millions of marriage altars. We can expect greater events in this year than ever before, for the world's population has so vastly increased there are so many more than in any other year to laugh and weep and

shares.

The front door of a supendous year has beened. Before many of you there will be twelve months of opportunity for making the world better or worse, happier or more miserable. Let us pray that it may be a year that will indicate the speedy redemption of the hemisphere. Would to God that this might be the year in which the three great instruments now chiefly used for secular purposes might be put to their mightiest use in the world's evangelization of the property of the world's warmen and heard in apocalyptic vision when he started back and cried out, "I saw another angel flying in the midst of heaven having the everlasting gospel to preach unto them that dwell on the earth and to every nation and kindred and tongue and people."

They were tongues of fire that sat on the heads of the disciples at the Pentecost, and why not the world called to God by tongue of electric fire? Prepare your batteries and why not the world called to God by tongue of electric fire? Prepare your batteries and make ready to put upon the wires and make ready to put upon the wires and make ready to put upon the wires and make ready to put upon the vires are bound in crystal chains. The fountains that made highest leap in the summer parks now toss not one jet, for every drop would be a frozen tear. The sleds craunch through the hard snow. Warmest attire the wardrobe can afford is put on that we may defend ourselves against the fury of the elements. Hardest of all the months for the poor, let it be the season of greatest generosity on the part of the prosperous. How much a sectile of coal or a pair of shoes or a cant or a share may do in assurance and the hacking cough and the night temperate zone! The fire she was a season of greatest g

DR. TALMAGES SERMON

SUNDAY'S DISCOURSE BY THE NOTED DIVINE.

Subject: Grasp Present Opportunities — A Prediction That the New Year Will Be One, of the Greatest of All Time—Prepare For the Future.

WASHINGTON, D. C.—In this, Dr. Talmage's first discourse for the new year he speaks words of encouragement to all the speaks words of encouragement to all the conflict and came back to the king and doubting. The text is Exodus they have year he speaks words of encouragement to all the conflict and came back to the king and doubting. The text is Exodus they have year he was the conflict and came back to the king and doubting. The text is Exodus they have year he was the conflict and came back to the king and doubting. The text is Exodus they have year he was the conflict and came back to the king and doubting. The text is Exodus they have the search and travelers are the washington to be a conflict and came back to the king and doubting. The text is Exodus they have the search and travelers are the withdrawal of the scene into complete silence. These shepherds and travelers are the withdrawal of the scene into complete silence. These shepherds and travelers are proportion. The heart of the withdrawal of the scene into complete silence. These shepherds and travelers are proportion. The heart of the withdrawal of the scene into complete silence. These shepherds and travelers are proportionally the same uproar and tunuit in the heave.

Whether those shephereds and travelers and embassadors of the king were in deason I cannot say, but this I know—that are new in combat, the heave of stata are new in combat, the heave of stata are new in combat, the heave of the state of t