Harnessed to an Electric Fixture, It Quickly Does Its Work - Bolls Water in Four Minutes,

Heretofore it has always been supposed that some kind of a stove was required to heat water, even If only a stove the size of your band. An Ohio genius, however, has demonstrated that this is not so by devising an electric water heater. A little metal cylinder has a cord



Pocket Heater In Action

which can be fastened to an ordinary electric light socket. The current is then turned on and the cylinder is placed in the water. The receptacle containing the liquid must be brought to the heater, as the latter cannot be moved farther than the length of the cord. The heater will produce hot water in two minutes and boiling water in four minutes. It is useful to heat water for shaving and as a sterilizer is just what is required. At the same time it does not charge the water and may be handled without fear of contact with the current.

USE ELECTRIC CEILING FANS

Being Given Interesting Test by Mo bile (Ala.) Merchants to Keep Out Harmful Files.

Electric celling fans as substitutes for screen doors are being given an interesting test by several business ouses in Mobile, Ala. The fans are installed over the doorways on the outside and the draft created is said to effectually prevent flies from enterng, says the Popular Mechanics.

The idea was first tried over the entrance of a store located next to a restaurant, the files from which were most persistent and annoying in get-ting past the screen doors. Since the fan has been installed, it is claimed



Keeps Out Files.

that not a fly passed through the entrance, although the six-foot doorway ta wide open and customers are continually passing in and out.

Strengthen Filament. When it was first put before the public, the filament of the tungsten mp was so delicate that it would be often shattered by careless handling, and it was impossible to place them where they were subject to vipration, for the life of a lamp under such circumstances was necessarily short. The improvements made in the manufacture of filaments of this character have been very rapid. and at a recent electrical show all sorts of stunts were done with the tiny fire made for use in the lamp. Heavy pieces of furniture were sus pended by one of these thread-like cords, and they were subjected to other tests of this character and equally severe. It is claimed that a wire of tungsten may now be made with from three to five times the strength of that of the best steel, and has shown a strength of 500 pounds to the square inch.

Wireless Control of Boat. Experiments have been going on with a rudderless, crewless motor boat on Lake Wannsee have proved remarkably successful.

The craft was towed out two miles in the lake and its movements afterward were directed altogether by

means of wireless apparatus ashore. The boat threaded its way unerringly through numerous craft without the slightest accident. The inventor of the crewless boat is Christian Wirth, a school teacher.

Electric Light in Lungs.

Delegates to the convention of the American Laryugological Association held at Philadelphia witnessed a remarkable surgical operation when Dr. Chevalier Jackson of Pittsburg without the use of a knife, removed a brass paper clip that had been imsedded in a young woman's lung for sight years. He used a brouchoscope tube, inclosing a tiny electric light, a tor and minute forceps, which was lowered down the patient's

Kept Alive by Currents. is claimed that the doctors in

PRACTICAL USE OF CURRENT

Wooden Bridge Dismantled by Use of Electrically Heated Wires to Save Piers and Abutments.

An interesting use of electricity was ecently demonstrated in England, where a wooden bridge was cut down by means of electrically heated wires. The bridge had been condemned, and was to be replaced by a steel structure supported on the old masonry plers and abutments.

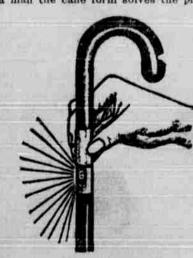
Three weeks was allowed in which to dismantle the woodwork, but, says the Scientific American, it proved impossible to accomplish the work in so short a time without the use of dynamite or fire, which undoubtedly would have injured the masonry. Finally an electrician proposed to destroy the bridge by the use of electricity. Each span of the bridge contained 27 planks, and it was proposed to cut them so that they would drop into the water simultaneously, clear of the plers. The structure was wired and sufficient current was employed to bring the wires a cherry red. An hour and forty minutes after the current was applied the first span was cut and fell into the water.

The operation was begun at five o'clock in the morning, and at two o'clock the next morning the structure had been demolished without injuring the masonry.

ELECTRIC LIGHT IN A CANE

Takes Place of Pocket Flashlight and Does Not Draw Clothes Out of Shape-Easily Worked.

Carrying a pocket flashlight has one drawback for the fastidious dresser; it may in time draw the pocket out of shape, besides always bulging it out, says the Popular Electricity. For such a man the cane form solves the prob-



An Electric Light Cane.

lem, consisting as it does of a cane with a slender flashlight inserted near the handle. By sliding or turning a metal sleeve as shown in the illustration, the current is turned on and the miniature lamp sheds its beams on the way or on the keyhole.

WORK WIRELESS UNDER SEA

French Boats, Seven Miles Apart, Transmit Submarine Message-Apparatus on All Vessels.

Interesting experiments have been carried out with submarine and wire less telegraphy by the submarine flotilla at Cherbourg. By means of submarine bells messages were conveyed quite distinctly to the battleship Bouvines by four submarines, each at a distance of seven miles. As a result of this experiment the minister of marine has given instructions that all submarines shall be provided with

The submersible Prairial was also successful in signaling to the Bouvines by wireless telegraphy, all the vessels met by her between St. Waast, Cape de la Hogue and Cherbourg, and announcing her arrival in sight of the forts of Cherbourg. French submarines will in future be provided with wireless telegraphy apparatus.

Tungaten Lamps Lead. A recently published table of results of a test for best maintained candle-power of various illuminants shows tungsten lamps at the head with 94 per cent average of initial candle-power on 1,000 hours of burning; the magnetic are is next with 90 per cent; enclosed carbon arc and mercury vapor alternating current arcs are next with 78 and 75 per cent respectively. Illuminants other than electric run below 70 per cent.

The average length of a moving picture film is 1,000 feet. The telephone rate in Denmark outside of the larger cities is about \$11 a

Experiments abroad demonstrate that electricity stimulates plant growth.

During the past year 1,200,000 miles of telegraph wire were added to that already standing.

A man in East India has invented an electric pen that carbonizes the sheet of paper over which it passes. A portable electric lamp useful to

miners or other persons who have to work in the dark has been patented by New York man. Many British business men are of he opinion that England would have

better telephone service if it were ut of the government's hands. The filament in the new Edison tungten lamps is only half the diameter of a human hair and is as strong, in

proportion, as steel plano wire. The new electric restaurant toaster will operate at a cost of ten cents a day, 60 per cent. cheaper than gas, and will toast 250 orders a flay.

In 1909 the telegraph and telephone companies, together with similar concerns that use electric wires in this country, expended over \$7,000,000 in the purchase of poles.

In an electric fountain, small enough for use as a table decoration, that elphis kept a patient alive for a Boston man has invented the falling hours after heart action had water turns a wheel which changes by means of electrical curthe colors of the lights which illumin

New News of Yesterday

By E. J. EDWARDS

Camp's Ungratified Desire

Former Manager of the New York Clearing House Had Consuming Ambition to Find One Day's Exchanges Exactly Balance.

One of the most famous managers in the history of the world's largest have taken place in any one day clearing house association—that of would exactly balance one another, New York city-was the late William just as if you swapped your pocket A. Camp. He held that position for nearly a quarter of a century, and in that time he carried the clearing thought of this the more anxious I behouse through two famous panicsthose of 1873 and 1893-and several lesser financial disturbances. No of the clearing house that the ex- said to me: financial history of the country of the changes would exactly balance, so period from 1870 to 1894 would be complete without paying considerable attention to the activities of Mr. Camp as manager of the New York Clearing House association and the work of that institution under his manage-

Recently I told of the improvised institution of research which Mr. Camp, as manager of the clearing house, conducted to test the mind's ability to count without external aid. Mr. Camp was a man of delightful whims, and this was one of them. But there was yet another whim which had even greater hold of him. It became, in fact, the great consuming ambition of his life as manager of the clearing house.

"This institution," he said to me one day, "is established for the purpose of making it possible to exchange easily the checks and drafts which the banks that are members of the association have received upon deposit or which are drawn against these banks. Every bank comes here at a certain hour of the day with checks or drafts, which they call 'items,' that have been received upon deposit within 24 hours. Then the clerks go around presenting the drafts to representatives of each bank. In that way the exchanges are effected, for every bank is credited with the drafts which it has presented for collection and is charged with the items presented to for collection. Then, if there be any balance, the bank must pay it in to the clearhouse, which settles with each you will understand the nature of the ciation opens.

fused to Sell the New York Times

So Contemplated Exposure

Could Be Prevented.

1871 George Jones, at that time pro-

prietor of the New York Times took

his accustomed seat in a little billiard

saloon which occupied a part of the

basement of the old Times building

was very fond of the game of bil-

liards, although he did not play it

bimself, and it was his habit to spend

a half hour at noon each day, if he

had leisure, watching the billiard ex-

On the day in question Mr. Jones

was suddenly called from his place

by a messenger who had evidently

been sent from his private office on

the main floor of the Times building.

In that office he found a lawyer and

a man of business, both of whom he

recognized at once as personal

friends of William M. Tweed, who

"My father received the two gen

lemen very politely," said Gilbert H.

Jones, who inherited the Times from

his father. "He knew perfectly well

what they had called for. He had

only a day or two before gone over

with Mr. Lewis J. Jennings, then the

managing editor of the Times and

afterward a member of the English

parliament, all of the proof sheets of

the first exposure of the Tweed ring.

It was through Mr. Jennings that the

bargain was first made by which the

Times came into possession of the

incriminating documents copied from

the books of the comptroller of New

York city, Connolly, who was a mem-

"After the formal greetings were

over, one of the gentlemen said to

my father that he had heard that the

Times newspaper property was for

sale. Father replied that he had not

said to anyone that he was willing

or anxious to sell the Times. Then

Keeping Ahead.

There is a southern insane asylum

where those inmates whose particular

form of insanity is barmless are per-

mitted to participate in dances and

other amusements, to which outsiders

are invited. At a lawn party at this

institution a prominent lawyer, who

had been invited, saw a very attrac-

tive girl seated under the tree, and

You are surely not an inmate of

this place?" be sympathetically in-

"Oh, yes, I am," she assured him

"But you don't look a bit insane."

"Well, you see, I was put here be-

see that man walking around with a

"Well, he walks around after me

and washes off the swear words that

write on the walks. I'm two helis

and a damn ahead of the mop now."-

Fre : Production of Aluminum.

France now turns out over 200,000

Metropolitan Magazine.

tons of aluminum each year

engaged her in conversation

ber of the Tweed ring.

was the boss of New York city.

perts.

One hot day in the midsummer of

Vain Offer of Boss Tweed

asked.

in A-1 securities.

times five million.'

a wonderful thing if one day's exchanges in the clearing house so exactly balanced that there would be nothing to pay over. See what that would mean. It would mean that all of the sales and purchases of commodities which were represented by time during the year the exchanges these checks and drafts and which had balanced. "No, not yet," he said, and then he knife for somebody else's penholder on an even basis. The more I

pay over to any one. And at last this became my pet ambition. "But though this desire came to me able to see it gratified. There have been a few times when exchanges which aggregated a hundred millions or thereabout have been made with a was against me."

came that it should happen at some

time during my service as manager

overloyed with the prospect that the exchanges would balance exactly. What a triumph that would have been! But I was disappointed at the last moment. And now, every day when I come here, I say to myself that I hope this is to be the day when the exchanges will exactly balance." Perhaps a year later I met Mr. Camp again and asked him if at any

added sadly: "But I feel sure it will happen before my time here ends." Some time later, when I saw Mr. Camp after it became known that he was to retire from the management of the Clearing House association, be

"I have carried this clearing house that there would not be a dollar to through some severe panics. The aggregate exchanges effected here have been up into the trillions. But I have But though this desire came to me a full decade ago, I have never been deep regret, for I never shall see the exchanges at this clearing house exactly balance. And yet it might have been, for it was all chance, and fate few hundred dollars' balance to pay. (Copyright, 1911, by E. J. Edwards. All comember vividly that one day I was

Entered Law at Fifty-Seven

Circumstances of the Admission of Gerrit Smith to Bar of New York State as Told by Judge Davis.

"I suppose that no lawyer who has been given a more or less prominent niche in the history of our county was older at the time of his admission to the bar than was Gerrit Smith when the United States marshal, acting unthat event happened in his life," said der the fugitive slave law, was not the late Judge Noah Davis of the New York bench, who gained national prominence in 1873 when he presided over the trial which resulted in the conviction of that arch grafter, William M. Tweed, on charges of forgery and grand larceny.

"Gerrit Smith-the same Gerrit Smith who simultaneously was one of the country's leading abolitionists and cuse. The men were accordingly arlargest land owners, the friend of John Brown through all his adventures bank. With this explanation in mind, and yet one of the three men who went on the bail bond of Jefferson wish which has been with me every Davis following his capture and imday when the Clearing House asso prisonment in Fortress Monroe after the close of the Civil war-was fifty-"It occurred to me, I should think, seven years of age when he became a some ten years ago, that it would be member of the bar of New York state.

"I suppose you would sell the

"'I don't know about that,' replied

my father. 'That might depend upon

"'Well, we are prepared, Mr.

make you an offer of five million dol-

lars for the Times newspaper, and if

you would sell the paper, but wanted

gain could be made with that in

"'Who wants to buy?' my father

"'We represent the parties; I don't

see what it should make any differ-

ence to you who they are,' was the

million dollars in cash and the rest

all the difference in the world who

the parties are. I might sell the

Times for five million dollars to a

Why not? the lawyer asked.

"'Because,' said my father, 'if

for sale to them at any price.

fight against them."

"'Well,' said my father, 'It makes

'We are willing to give a

Times, Mr. Jones, provided you got

the right kind of an offer for it.'

Janes, the lawyer continued,

who wanted to buy it.'

And the circumstances of his admission, which he related to me, were ex-

fifties from a New York district. About that time a runaway slave, known as Jerry, had made his way across New York state, had been traced to Syracuse, and from that city had been able to cross Lake Ontario into Canada, So able to lay his hands on Jerry and return him to his owner; but he did secure evidence, as he thought, which justified the arrest and prosecution of several citizens of Syracuse charged with aiding and abetting the escape of a runaway slave. One of these men was Moses Somers, at that time the editor of the leading paper of Syrarested and taken to Albany to be arraigned before the United States district court

"As soon as Gerrit Smith heard of the arrest of the men-his home was at Peterboro, a short distance from Syracuse—he hurried to Albany, offered himself as their counsel, had his offer accepted, and appeared in the United States court with the accused men. Smith, let me explain, for years had appeared before the state and federal courts, but he had never been admitted to the bar-he had always appeared as next friend, a matter usually very easy of arrangement in the old days. But in this particular case the court, which had long been suspected of pro-slavery leanings, refused point blank to permit Mr. Smith to appear as next friend for the accused men, eyen when Mr. Smith protested vigorously that he had the right so to appear, and the cases were adjourned for a day to give the prisoners opportunity to obtain counsel who were in Printing House square. Mr. Jones to keep the building, then the barmembers of the bar.

"Late in the afternoon of that day Judge Ira Harris of the state supreme court and afterwards United States senator-the father of the Miss Harris who sat in the box with President Lincoln the night of his assassination in Ford's theater, called Mr. Smith be-

fore him. "'Mr. Smith, said Judge Harris, " have just been told that the United States court this morning refused to receive you as counsel for the men who are accused in the "Jerry" case, on the ground that you have not been admitted to the bar. Now, if you will

"So, the next day, Gerrit Smith, who the Times to Boss Tweed or any of had studied law in his early manhis gang if I were to be offered ten hood and had a wonderful knowledge of it, appeared before Judge Harris. was asked a few questions, was admitted to the bar, And received from were to take any money from Tweed the clerk of the court his certificate. or his ring then I would become a Then he went to the United States participator in their iniquities and court room and said to the judge there the Times would receive its share of that he was now a member of the bar their stealings; and so I think I have of the supreme court of New York said to you, gentlemen, all that is necessary to say in order that you further stated that he was present to state and showed his certificate. He may inform those whom you repreappear as counsel for the men acsent that the Times newspaper is not cused in aiding the slave known as Jerry to escape. There was nothing "A day or two later," continued the son, "the Times published its first ex- as counsel, and he managed the case for the court to do but recognize him posure of the Tweed ring, and from so well that the prosecution of his then on until Tweed and his gang clients was soon abandoned by the were driven out of public life and federal authorities. It was the first public office my father kept up his and last case that Gerrit Smith won as a lawyer.'

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ceptional. "Smith went to congress in the mid-

man who I know would maintain its good reputation; but, for example, I come into my court the bar ex gracia.

Rich West African Land

Be Prepared to Cede to France.

Herlin and Paris papers, Germany is prepared to cede to France in return for various concessions on the part of the latter country, is one of the nost interesting of the West African territories. It was annexed by Ger-32 miles in length, but its extreme cause I can't keep from swearing. You length is 350 miles. The area of the colony is about \$3,700 square miles; its population numbers about 1,000,-000, but in 1909 only 330 of these were white men. In its article on "Togoland" the new "Encyclopedia Britannica" gives also some serviceable facts about the country's trade and inhabitants. The inhabitants are ne roes and negroids. Among the ast people there is a distinct infusion of Portuguese blood, and in all the ports are descendants of Brazilian

Territory That Germany Is Said to negroes who returned to Africa during the nineteenth century. About its industrial development we are told that "the country is rich in natural Togoland, which, according to the products, and its resources have been largely developed by the Germans. It was the first German colony to dispense (1903-1904) with an Imperial subsidy towards its upkeep. Several firms have acquired plantations, in which coffee, cocoa, cotton, kola, and many in 1884. Its coast line is only other tropical products are cultivat

When a sturdy Slovak entered store in lower Broadway the other day the dapper clerk, wishing to put the foreigner at his ease, observed cheerfully:

"Hello, John! How's your liver!" After a minute's reflection the foreigner's dull face beamed with intel ligence and he replied: "Oh, yes-me liver in Brooklyn."

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Wm LORENZ.

---Proprietor of----

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Dakota City.

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