

# ELECTRICITY FROM THE SKY

#### Experiments Being Made in France With Apparatus Designated as "Electric Niagaras."

Assuming that electricity in the clouds is the sole cause of the production of hail, experiments are being made in France with apparatus designated as "electric Niagaras" to drain the clouds of electricity, says Popular Mechanics.

In installing the apparatus huge copper points, bound together by bands of the same material, are placed on the summit of a high tower of chimney, very much in the same way as lightning rods. These are connected with a copper band, which leads to the ground and ends in a reservoir filled with water. By this route the atmospheric electricity flows down into the earth and "empties the clouds," so to speak.

sary, and quite recently the installation of an apparatus of exceptional nibbles the bait. capacity was completed on the Eiffel tower. This apparatus, it is hoped, will prove the practicability of the idea, but three or four years will probably be required before it is possible to place an exact estimate on the true value of the system.

# ELECTRICITY TO POP CORN

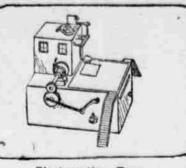
### Popular Diversion May Be Enjoyed by Any One Living in Modern Flat-No Burned Hands.

Apartment dwellers who have wistfully recalled the days when they popped corn in an open fireplace, will be glad to known that they now can enjoy this diversion in their very modern dining rooms-or in any room. has designed an electric corn popper quart of corn, is surmounted by a



Apparatus So Arranged That Each Rodent Drops Out of Sight Scon as Electrocuted.

The electric rat trup shown in the ilustration is somewhat complicated in construction and operation, but its construction is such that each rodent electrocuted drops out of sight, so that the bodies will not frighten others away, says the Popular Mechanics. The electrocuting circuit has one electrode on a trapdoor, while the second electrode constitutes a movable bait-holder. When the rodent steps onto the trapdoor and nibbles at the bait, the electrocuting current passes



## Electrocuting Trap.

The experiments with "electric through its body, and at the same time Niagaras" have been carried on for a motor is set going. This motor some time, but M. Violle, a member | drives a shaft, one revolution of which of the French Academy of Science, re- causes the trapdoor to first tilt, dropports that it is still too early to esti- ping the electrocuted body into the mate the practical value. A test on a pit, then restores it to its normal far larger scale was considered neces- position, in which position it remains until another rodent steps upon it and

## WORK OF ELECTRIC COBBLER

Threatens to Sound Death Knell of Old Shoemaker and His Bench-Work is Done Quickly.

When the great shoe factories demonstrated that they could make boots and shoes better and cheaper that the best hand cobblers these knights of the awl and last were relegated to the past-or they managed to eke out a meager living by repairing worn boots and shoes.

And now comes the electric cobbler and the days of the hand cobbler and his bench are numbered, says the Electric News. The electric cobbler, such as can be found in most large for that matter. A New York man cities, consists of one long machine, which is, in reality, a number of that is attached to the electric light | machines connected on the same shaft. fixtures in the room for its heat. The This shaft is turned by an electric popper, which has a capacity of a motor. The electric cobbler fixes shoes while you walt. It will sew on wire mesh dome to keep the kernels a sole, put on a patch, fix the heels

or reline a shoe in a very few minutes, as all the work is done by machinery at a high rate of speed. And it is not to be denied that the finished product is fully as good as though the best cobbler had spent a half day on the job. It the shoe needs resoling the attendant picks up and places a piece of leather of the right size and the machine stitches it fast to the upper. At the next machine an emery wheel cuts down the edge of the sole and trims it to the right shape. The next machine finishes and polishes the edges. From the stitching machine to the polisher is but a step and the work is done long before the old fashioned shoemaker could have the shoe fitted to the last.

HEATER FOR FACE STEAMING



#### Johnny Coulon.

After eight years' ring service, little Johnny Coulon, the bantam-weight champion, has reached the staggering stage of his career and it looks to be only a matter of weeks until he will be decorated with an "ex."

Four new dolls are in the running for the title: "Kid" Williams, the hard-hitting Baltimore boy'; Eddie Morgan, the British boxer; Charley Ledoux, the Parisian with the funny face, and Eddie Campi, the clever San Francisco lad.

Williams' punch gives him the "ace."

## DAY OF LEFT-HANDER WANING | TO SIGN ELONGATED FIELDER

vian origin.

at Marlin

bat.

season.

nooga

team.

Slim Sailee, Nap Rucker and Rube Marquard, Southpaws, Are Still In Prime Form, However.

Alas, the day of the southpaw pitcher, is waning in major leagues, according to a recent statement of Scout Irwin. Glancing over the pitchers of the National league, one wouldn't get that



Manager McGraw of New York Giants Will Enroll Much Nicknamed Tallest Player. Early in February John J. McGraw will take up the task of hauling out

of the far sticks, foot by foot and yard by yard, the longest baseball player that ever coiled himself around a jungle diamond. Not content with the distinction of unveiling the largest piece of pitching statuary ever seen in Harlem, McGraw will now present to the Big City the most extensive outfielder that was ever distributed under Coogan's Bluffs.

The name is William Jacobson and sional or amateur. e will come bulging into the big

# American Sprinter Makes Study of Game Abroad.

**BETTING FADES SPORT** 

Contestants Wish to Fool Handicapper and Races Are Marred by Trickery Caused by Wagers, Says Charles E. Holway.

Charles E. Holway, the American professional sprinter, who has donned spiked shoes and competed in various countries, declares that if there was not so much betting England there would be better athletes in that country. English professionals, he says, waste time and energy trying to fool the handlcapper, and this spoils them in the long run. Holway has met and defeated some of the best professionals in the world and has much information concerning athletic conditions the world over. Some day, he says, Australia will produce an athletic team. that will surprise the sharps. The climate there, he adds, is just suited for athletics, and only the small population prevents it from keeping abreast with the countries which enter teams in the Olympics.

V V V

In his travels Holway had an excellent chance to observe conditions and the methods of various athletes in training. In speaking of his wanderings and observations Holway says:

"If there was not so much betting there would be more good athletes in Great Britain today. A professional runner wastes half of his career trying to fool the handicapper and waiting for the mark he considers good enough to win comfortably. There are always five or six like that in every handlcap, where a man will be on limit, say sixteen yards, when he should be allowed about ten. The handicapper says 'Well, here is a lad that has never won a heat,' so his limit is fixed at 16 yards in 130. Some one must be on that mark. The fellow who has fooled the handicapper gets on this big mark and the scratch man has no chance. A man may have a couple of runners and if there is not much betting they are saved for another year and sometimes two years, and they get so used to not trying that they never get to be good runners. Here is the secret of the American athlete's success. He is always trying. In England the athletes do not try, and I include both amateur and professional-one is as bad as the other. Simply because one amateur athletic meeting has given a \$100 watch and chain runners wall for this prize

"I like England and was used well there by nearly everyone. They are very hospitable. The reputation all American athletes have when in England is shown thus: The English will say, 'We can back So and So; these Americans are always triers,' and | have always felt proud to hear that said

"Now, in Australia and New Zealand, professional athletes and professional athletics are thought more of than the amateur, because the best times are set up by the professionals, and the people seem to want to see the best, no matter whether profes-



want you to hear about Liggett & Myers Duke's Mixture -the tobacco that thousands of men find "just right" for rolling-or tucking into a pipe.

Dukes Misture

This favorite tobacco is fine old Virginia and North Carolina bright leaf that has been thoroughly aged, stemmed-and then granulated. It has the true tobacco taste, for the very simple reason that it is pure tobacco.

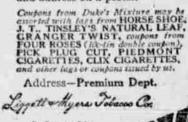
Pay what you will-it is impossible to get a purer or more likeable smoke than Duke's Mixture. It is now a Liggett & Myers leader, and is unsurpassed in quality.

In every 5c sack there is one and a half ounces of splendid tobacco.

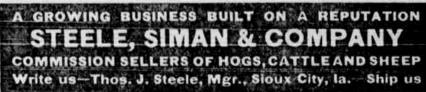
## How the Boy Got His Air Rifle

In every sack of the *Liggett & Myers* Duke's Mixture we now pack a Free Present Coupon. These Coupons are good for all kinds of useful articles—something to please every member of the family. There are skates, sleds, balls and bats, cameras, unbrellas, watches, fountain pens, pipes, opera glasses, etc., etc.

As a special offer, during Jan-uary and February only, we will send you our new illustrated catalogue of presents, FREE. Just send us your name and address on a postal.







HAD ALL THE REQUISITES

THE CASE.

Bronson-You're not looking well,

Woodson-No, indeed. I'm always

Wives Who Pay Alimony.

United States? Here is the answer:

In this state more than 500 divorced

wives are paying alimony to weary

ex-mates; in Indiana, 450; in Ohio,

673; in Wisconsin, 566. Pennsylvania,

though the second state in population,

has only sixty such wives .- Chicago

Neither Acceptable.

Pretty Daughter-So you don't like

Her Father-No; he appears to be

Pretty Daughter-But what objec

Her Father-Oh, he's worse than

Important to Mothers Examine carefully every bottle of

CASTORIA, a safe and sure remedy for

infants and children, and see that it

Bears the Char Hiltekine Signature of Char Hiltekine In Use For Over 30 Years.

Children Cry for Fletcher's Castoria

Heredity.

ber and her mother was a woman.

dog, what remains?"

"You won't."

Knicker-Very talkative isn't she?

Bocker-Yes; her father was a bar-

Negative Side.

Mrs. Winslow's Soothing Syrup for Children

teething, softens the gums, reduces inflamma

tion, aliays pain, cures wind colic, 25c a bottle in

Bachelors are "women's rights," and

FOLEY KIDNEY PILLS

Are Richest in Curative Qualities FOR BACKACHE, RHEUMATISM, KIDNEYS AND BLADDER

PISO'S REMEDY

Basi Cough Byrup. Tastes Good. Un in time, Fuld by Demonstra.

FOR COUCHS AND COLD

widowers are women's lefts.

"If I take the bone from your bull-

Jim. He strikes me as being capable

Are there abused husbands in these

feeling poorly before Christmas.

old fellow.

Examiner.

capable of nothing.

tion have you to George?

of anything,-Stray Stories.

Jim?

Electric Corn Popper.

from hopping out. It is mounted on rubber tired wheels so that it can be pushed about on a highly polished table without damaging the finish. An advantage of this device, even in homes where there are fireplaces and coal ranges to pop corn over, is the comfort with which it can be used-no scorched face and hands.



Jamaica has two cable stations and a wireless tower.

An electrically-driven machine to split kindling wood is a novelty. Seven electric motor trucks will be

purchased by the Manila postoffice. Electrolytic etching is used by a new process to produce hardened steel dies

Liberia will be given a wireless station, with 2,500 miles radius, by a French company.

Motor vehicles worth \$919,219 were brought into South Africa at Port Elizabeth last year.

Electric power has been adopted by candy factories because of its ease of control and cleanliness.

enclosing electric wires,

just been installed in the palace of the in diverting the electric bolts. As Sultan of Oman, at Maskat

gether have about 80,000 electric great increase and a return will be signs, containing about 8,000,000 lamps

In propertion to population Stockholm has the greatest number of telephones for any European city and Madrid the fewest.

In new electrical steering gear for vessels hydraulic cylinders protect the motor from shocks caused by waves striking the rudder.

A speed exceeding two miles a minute has been made by cars on a short German electric railway built by army officers for experimenting.

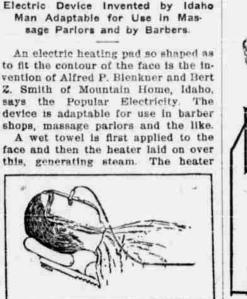
United States engineers claim that nearly a million-horsepower could be developed from the Green river, a tributary to the Colorado.

A motor, controlled by a switch from his house, is used by an Illinois genius to give lifelike notions to a scarecrow in his corn field.

To promote the mutual interests of wireless telegraph operators and their employers an international operator's union has been organized.

Motormen of the traction system of the English city of Birmingham are given cash bonuses when they avoid accident due to negligence.

The recent installation of a 500-light electric plant in the palace of the sulof electrical machinery into Arabia.



Electric Face Heater.

has double walls, the heating elements | impression. Note the trio-Nap Ruck-Moreover the heater is adjustable in air chamber is formed between it and tion of heat.

Lessen Damage by Lightning. Investigations made over Europe seem to justify the bellef that the damage by lightning, in the cities of the Cards. When he was in any Beginning June I New York will pro- particularly, has decreased to a very kind of physical shape he was about hibit the use of wooden mouldings for marked degree in recent years, and it the hardest man in the organization to is explained by the presence of elec defeat. No one questions the effec-The first electric plant in Arabia has tric wires, which act as a protection tiveness of Nap Rucker. He fre-

the wires are put underground it is The United States and Canada to expect that there will be noticed a generally made to the use of lightning roda.

## Fan Shines Shoes.

The polish used on tan shoes is thick liquid, which must be thoroughly dry before it will give the proper "shine"

To accomplish this the small electric fan has been adopted by numerous shoe shining stands. The process of drying with a palm leaf fan may irritate a customer by making him wait four or five minutes. Electricity does it in about a minute.

Library on Electricity.

The Massachusetts Institute of Technology has been given a 30,000-volume library on electricity and electrical engineering, one of the most complete of the kind in the world.

New Tungsten Lamp. A tungsten lamp for use in motion picture projectors that has been in vented in France has a closely coiled

spiral filament to condense the light in a small area.

First Electrical Fire Engine. New York has the first electrically tan of Oman marked the introduction driven fire engine in use in the off, with such a trio to point to, is a job with some minor league team versities and preparatory schools, United States.



Slim Sallee.

being located between the walls. er of Brooklyn, Slim Sallee of St. Louis and Rube Marquard of New size and its arrangement such that an | York. It would be difficult to find a trio of right handers in the same the face, giving a more even distribu- league to beat these port flingers. Marquard was largely responsible for the victory of the Giants in the

National league race. His nineteen straight wins were a big help to Mc-Graw. Sallee was the leading twirler



Rube Marguard.

340

quently has been referred to as half the Brooklyn team--the other half being Jake Daubert.

How Scott Irwin could get the idea indeed difficult to see.

"The climate is superb for athletics. league with enough nicknames to and when one considers that there carry him through several columns of are more people in Greater New York biography. Mobile knew him as "Baby Doll," while he is also referred

than in Australia, New Zealand and Tasmania combined, I think it is a to as "High Pockets" and "Timber wonderful country to turn out so Line." His name proves his Scandinamany good athletes.

"Everyone loves sport in general He is some six feet six inches from and there are few that do not indulge shore line to roof and will weigh more In some pastime. I think the Austrathan we dare say. McGraw dug him lians are the biggest hearted people out of the Three-Eye league a year in the world They certainly like ago and turned him over to Mike Americans, and I find in many things Finn at Mobile after looking him over they copy American methods.

Big Bill has a large, open counte nance and a serious expression, but he is anxious to learn to play baseball. Finn edveloped him into a slashing outfielder and the Southern league averages show that he hit better than .260 and stole enough bases to satisfy McGraw that he has improved. Bill was originally a catcher, and Wilbur

Robinson tried to induce his to return to that trade, but Wi'sam pre fers the outfielding business. A bad finger forced him out fre a behind the

schoolboy or college student, but i think many will agree with me when I say it practically ends there, and I. think it is wrong when the college student sacrifices his life for such a dangerous game and disappoints his parents, who invested their savings in him in order that he might earn his bread and be of service to his, country.

waking up to this fact, and more interest has been taken in soccer than has ever been before, writes Robert Smith in the Chicago Tribune. As a winter game it has no equal. Here is where the dissipating athlete meets

his Waterloo. Soccer cannot use the smoke flend or the beer drinker. Hughey Jennings had only three and if Chicago had more soccer playplayers who batted .300 or better last ers it would have more real athletes.

Mr. Ritchie wants reasonable time in which to recover from those fouls and of brain work, the player will albefore assimilating more such wallops The Providence club has sold Catchthe laws of physical culture.

## \* Stovall's Catchers.

Manager George Stovall of the Browns will have an entirely new catching department when the 1913 gong sounds. The newcomers are Agnew, Alexander, Crossin and Mc-

the Giants' leader, has been given a life contract with the New York Nationals.

lossip

Pitcher Walter Leveranz, the young ster Manager Stovall drafted from the Coast league, is being touted as a great find.

Robert Hedges, president of the St.

Louis Browns, says he is satisfied with

George Stovall as manager of his

Instead of firing all his umpires, Tip O'Neill may sign a few more to keep his Western league magnates within their limitations.

son. This puts Arthur Devlin on the classes. The prices numbered 970,

in his head that southpaws are dying | canned by Stallings and is looking for as manager.

"In South' Africa the climate is very hot. I could not produce my best rea sults consistently, although at times proof?' I ran faster in Johannesburg than 1 ever ran in my life." IN PRAISE OF SOCCER GAME No Place for Dissipating Athlete and Develops Real Athletes-Purely Scientific Game. trict. Football is a fine game for the

The high schools of Chleago are, said

While it is purely a scientific game and requires a fine degree of accuracy ways come out on top who observes

er Wade Reynolds to Sloux City and Infielder Jimmy Gillespie to Chatta-

It is reported that John J. McGraw, Allister. Stuffy McInnes Busy

Stuffy McInnes, the crack first baseman of the Athletics, was the busiest man at the first station last season. He handled 1,609 chances.

was second with 1,526.

Manager George Stallings, the new leader of the Boston Braves, says he of the English Kennel club, held in will play Bues at third base next sea. Crystal Palace, London, included 630

minor list. Maybé one reason why Devlin has

been mentioned as the next manager of the Yankees is that he has been Seemingly Extraordinary Essentials Are Needed for the Practice of the Law In Florida.

> Will Irwin, the author, was holding forth upon the superiority of California over Florida as a winter resort. "Florida," he said, "is too relaxing.

This is due to the fetid air of the swamps. "There's a story about a young man who was being examined for admis-

sion to the Florida bar. The examination ran thus: 'Young man are you malaria-

Yes, sir. "'Can you ride?" 'Yes, sir.'

" 'Do you own a horse?' "'Yes, sir.' "'Is he a good swamp swimmer?' "Yes, sir.'

"'Then, young man, I welcome you to the practice of law in this dis-

Neat Knock.

Hobey Baker, the football star, was lunching in his native Philadelphia. A young girl, over her queer alligator pear salad, mentioned the name of a Princeton sophomore who had played rather badly on his class team. "He is an awfully nice boy," she said. "What was it he played on the

eleven, Mr. Baker-halfback, quarterback, fullback ?" The handsome and herculean "Ho-

bey" smiled. I think he played drawback," he

Locating the Fool. A stout old gentleman was having trouble with the telephone. He could hear nothing but a confused jumble of sounds, and finally he became so exasperated that he shouled into the

transmitter: "Who's the blithering fool at the

end of this line?" "He's not at this end," answered a

cool, feminine voice.

She Was Anticipating.

"When he proposed to her she

knocked him down." "Gracious! What did he say to that?'

"He yelled: 'Hold on! Hold on! We ain't married yet!' "-Houston Post.

> Same Thing. "So you have given up jetting mar

A man's love used to "burst into

ried?" "Yes; and you have given up your auto. What was the reason of that?

Luderus of the Philadelphia Nationals "Cost of upkeep." "That's what influenced me.

## \$36,500 in Prize Money for Dogs.

Baseball Reason. The fifty-seventh annual dog show "Why was Napoleon so successful? "He managed from the field," yeatured a voice from the rear of the class. "The kings he went against and the prize money \$36,500. managed their campaigns from the bench.

## A Healthy Organization.

The National Collegiate Athletic association numbers 94 colleges, unlflowers," but nowadaya a girl has to walt for it to develop by the wearlwith more than 120,000 students. some process of geological formation.