

suppose I'd stick you for so simple a Problem Was Easy for Edison thing as that "And yet," concluded Mr. Hess, "the

Nizard Quickly Told New York Commission Just How Electric Current Wires Could Be Placed Underground.

When New York city, back in the late eightles, passed an ordinance forbidding the stringing of telegraph and telephone wires overhead and ordering the miles of wires already overhead to be placed underground a commission was appointed to take charge of the work of burying them. A member of this commission was the late was clearly amused at our astonish-Jacob Hess, at one time very prominent as a Republican organization leader in New York, and one of the group of very energetic young men who were trained in politics by Chester A. Arthur when he was a power in New York city politics.

"The most impressive evidence I ever had of Edison's genius I received simple, off-hand way how to do the when I was a member of what I be thing we had spent the best part of lieve was the first authoritative body a year puzzling over; for none of us to deal with the problem of laying a doubted that he had solved the probcity's wires underground," said Mr. lem, and afterward the experiments Heas to me a few years before his which we conducted proved condeath. "And, by the way, our work as clusively that he had. a commission was closely followed by municipal authorities throughout the him what his bill was for the advice United States and also by some of the he had given us. leading municipal experts of Europe.

"Well, when we started out we knew that it wouldn't do just to place the wires in trenches and let it go at that; anybody knows that wires so placed would not work and would boon be destroyed. So we had auperiments in order to get at least one satisfactory system of burying the wires, and to enter into contracts with inventors of satisfactory systems. One of our first moves, therefore, was to advertise our needs.

"You can't imagine the number of inventions that were brought to our attention-they simply were legion, as the saying is. Most of them were brothers McCarthy. worthless on their face, and we were away up into the thousands. One of party were Archbishop Hughes of cost alone made its use prohibitive.

"One day, after we had been strug- time, being bishops only. The captain gling with the problem for weeks, and of the steamship on which we crossed were as far away from solving it ap- learned that we were going to Ireland parently as when we first tackled it, as soon as we had landed, so, doubtit was suggested that we call on Thom- less out of respect for the two dignias A. Edison and ask him to invent taries of the Catholic church, he volsomething that we could use, or, at unteered to save us the trip to Liverleast, give us a suggestion that we pool by putting us ashore in Ireland could have worked out. We wrote in one of the ship's boats. We gladly his laboratory in New Jersey.

"Presenting ourselves before him at the appointed time, we found him wearing an old linen duster and a much battered straw hat. As we stated the object of our call a queer little smile passed over his features. Finally, he said: 'I suppose you have

had all sorts of inventions offered to you? We nodded acquiescence.

"'Well,' he said, 'chuck 'em all out. Most of them are no good, and, besides, you don't need any invention." "We looked surprised and Edison

the season and made himself known to us with the request that if it were ment. Then he proceeded to elucidate. possible he would like to have a little 'All you have to do, gentlemen, is to practise with us, as it would aid in insulate your wires, draw them his training. through the cheapest thing on earth, "I told him we would be glad to lead pipes, run your pipes through

have him get in the game, and told channels or galleries under the street. him to get in left field. He looked and you've got the whole thing done.' around helplessly for a moment or "nere he was telling us in that two, and then, coming close to mo, said, almost in a whisper:

to be placed underground."

practise with them.

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Showing Himself Up.

'Say, which is left field? I never played on this diamond." "--- Philadelpphia Times.

> A Good Actor. "I see you have an actor employed

lel O'Connell, the great Irish libera-

"Before we left Edison we asked on the farm. "Yes, I put him on. He's a darn good actor, too. I thought he was "Not a cent,' he replied. 'Do you working the first year he was here."

Weed and the Two McCarthys

tor.

thority to spend money to make ex- One in Dublin Did Him a Favor Be- Dublin just in time to secure good cause the Other Was His Favorite Walter in New York.

> "Ah, that was oratory! I have heard In one of the chats I had wish all of our great American speakers, Thurlow Weed when that great polltifrom William Wirt, who prosecuted cal figure of ante-bellum and wartimes Aaron Burr, down to Roscoe Conkling, was living in the peaceful retirement but I never heard by them such oraof old age, he told me the story of the tory as that which feil from O'Connell's lips. Then it was that I under-"On the first excursion that I made stood for the first time what the

asked by their inventors all sorts of to Europe," said Mr. Weed, "I went source of O'Connell's power over the prices, ranging from a few dollars with my daughter Harriet, and in our people of Ireland was. "After the meeting was over I said

the best of the inventions, as we New York, a warm personal friend of to the two bishops: 'I will go to the thought, was so expensive that its mine, and Archbishop John Baptist newspaper office and walt there until Purchell of Cincinnati, both, at that I can get copies of the paper with the speech in it, so that I can send them to the United States by the steamer which sails tomorrow."

"Arriving at the newspaper office, I heard the presses clanging, but I could see no light in the editorial rooms. I rapped at several doors, and at last a porter came to one of them.

"'I am anxious to get a few copies aim, and he invited us to visit him at accepted the invitation, were rowed of the paper,' I said, 'and I don't find ashore off Queenstown and so reached anyone about the building who ca

"'But I can't walt,' I protested. 'If

Safeguard Against Sudden and Some times Fatal Shock When Oiling Electrical Machinery. ter case and its outer edge is turned plan that Edison gave us off-hand and

INSULATED TIP ON OIL CAN

THE

free gratis for nothing is the one now When offing electrical machinery it universally employed when wires are is always advisable to safeguard your self against accidental shock, especially when currents of high tension are being generated, writes A. J. Jarman in Scientific American. It fre-"Unk" Russell, the local prize fightquently happens when an ordinary er, is very fond of playing baseball long-spout can is employed for oiling and when the Athletics are at home dynamos that a severe shock is rehe often goes out in the morning to ceived by the oller, resulting some times in death. Several years ago the Apropos of this practise of "Unk's" writer invented an oil can that was Eddie Collins tells the following story: perfectly safe under all ordinary con-"Unk came to Shibe park early in ditions of use. Owing to the extreme simplicity of the design any one possessing ordinary mechanical ability can convert an ordinary oller, either of the vertical or horizontal kind, into a safety oller. Cut the spout in the middle and solder upon each a plece of brass tubing having either an external or internal thread cut. Fit

thereon a coupling sleeve made of insulating material as shown in the sectional view. The insulator can be



made out of either hard rubber or vulcanized fiber turned in the lathe, with milled center to admit of a firm grip when screwing or unscrewing the parts. Since oll is an insulator, no says current can get past the coupling sleeve to the oller's hand. seats at an address delivered by Dan-

ELECTRIC HEATER IS HANDY

Heat Derived From Incandescent Lamp Is Reflected Out in All Directions From Base.

An electric heater of ornamental design is shown in the accompanying cut and is the invention of Frank Kuhn. Detroit, Mich. The heat is derived from incandescent electric lamps mounted in the base as shown, says Popular Electricity. These lamps are





Novel Cotton Wedding. on a screen, the children guessing who This affair was celebrated way down was who as each little figure passed

n old Kentucky, and was such a de- by. This made loads of fun, as it was lightful affair that I am sure our read- done before they entered the big drawers in all parts of the country will be ing room. I had better explain exact able to adapt ideas from it to suit ly how. As the guests arrived (and their own needs and conditions. The they were all very prompt) they were invitations said "Please come in a cot- met by a maid who took them into a ton frock." This conveyed the idea side room without removing their that it was to be an informal affair. wraps. The screen was in plain view. The spacious porches and grounds Each guest was taken separately, the were lighted with many lanterns, and wrap removed and he or she was dotted over the lawn were great white placed behind the screen. If the chilcotton umbrellas, such as are used for dren recognized the character, that in shade on wagons. They were on long dividual took a seat in the drawing stakes driven into the ground, and had room, the chairs being arranged in a Japanese lantern lighted and sus- rows. When all were admitted there pended from each rib; rugs and chairs was a professional entertainer, who did wonderful tricks for 20 minutes; were underneath.

These trysting places were much then there were games and dancing sought in the intervals between for a half hour. Refreshments were There was a large platform dances. served in the upstairs ballroom, which ome in actual contact with it. There erected with negro players, just like had been transformed into a veritable are no grooves for the lodgment of the plantation dances before the war. 'wonderland," with a bountiful use of Before the dancing the hostess progold and silver tinsel.

Tests of the new transmitter are duced bandana handkerchief aprons, to Many little surprises had been claimed to prove that it gives just as which the men sewed the strings; cleverly planned for the mystification good service over distances of from 1 then a wee colored china doll was of the young guests. For instance, to 500 miles as the cup type now in given each girl, with bits of chamois there was an immense water lily made skin from which she was to make a from paper and placed before a screen pen wiper for her partner. made from a clothes bars covered with

The refreshments were typically crepe paper and ferns; there was a southern: Individual chicken ples, petal for each child, which when hot corn muffins, tiny stuffed peppers, pulled down revealed a plate containiced tea and delicious watermelon, ing an ice cream rabbit. From the mouth of a huge, flerce-looking cat

little hostess.

A Neck-Wear Shower.

there came cookles and from an enor-A fall bride says the prettlest showmous snow ball came wee boxes of bonbons. There was a witch who er the girls of her home town gave passed favors and a clown who disher was - "neck-wear" downpour. The by electricity in developing the great lovely part was that each girl made ributed balloons. Wasn't this a wonderful party? It sounds rather difftwith her own fair fingers the dainty cult to produce, but the hostess ascreation for the bride who had grown sured me that it had been a delight up among them and was so soon to go the abilities of the engineers, it must far away across the sea. No one to get all ready, as she had the loving he admitted that they did not seem to can have too many stocks and collars, co-operation of a couple of young college men and two adoring aunts of the and there was every variety imagin-

have grasped the great possibilities of the various auxiliaries on the ship, able, some being of Irish crotchet. The and it is attention to these auxiliaries table center piece was composed of which determines the ultimate fulfillthe white gilly flower, often called "stocks," and the place cards were "As is now well known, practically bogus certificates of "stock" drawn all the auxillary machinery on the upon the Bank of Matrimony and Mauretania is electrically driven, igned by her majesty, the "American

and it is equally well known, Woman," with "Cupid" named as treasirer. The gifts were all done up in especially among electrical engineers connected with shipwork, that marine dainty tissue paper tied with white engineers have a stubborn and consatin ribbon and were brought in on servative objection to anything other a tray with bows of tulle on each than the steam-driven plant with handle. A wee maiden dressed as; which they have been brought up. Cupid presented the tray to the bride.

> An Unusual Party for Children. A mother of a twelve-year-old laughter issued invitations for this very pretty party. Remembering how

ular as last year. The colonel's plume is more than ever worn on small hats. children loved to dress up, she said: Please come in a costume represent-

the newest.

broad affairs.

derfully well.

Shaded automobile veils are among ing a character from 'Alice in Wonderthe noveltles of the hour. Yellow is one of the favorite colors

MADAME MERRI.

land." When all had arrived there was a pantomime showing the figures as the summer advances.

HANCINES OF

Heels are to be lower.

TASHION .

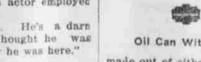
Black satin tailor-mades are good.

In materials, pled de poule is one of

The smartest new hats are low,

The plaited frill holds its vogue won-

Jet for buttons is not quite as pop-



give them to me.' "'Falth, then, you'll have to wait Why Blaine Left Journalism till the morning.' was the porter's an-

Would Not Raise His Salary, So He Quit and Turned to Politics.

This story of how a refusal to raise James G. Blaine's salary practically opened up a political career before him was told me by two competent authorities; an editor of Blaine's old paper, the Portland (Me.) Advertiser, during the Maine state campaign of 1878, and, some years later, by Hannibal Hamblin, Lincoln's second vicepresident and later senator from the state of Maine.

"Senator Hamblin," I asked one day, having recalled the story told me by the Portland editor, "did you ever propose to hold down his editorial pohear that Blaine's career might have been entirely different had he been granted the raise in salary that he de spirit with his employer, Mr. Blaine sired when he was editor of the Port- returned to Augusta whither he had land Advertiser in 1857?"

"Oh, yes, I know about that story, and I know it to be true," responded and elected a member of the legisthe senator, "and I am certain that lature. He was four years a member Blaine's career would at least have of that body, and for two years he was been greatly delayed-to say nothing its speaker, and that before he had of being different-had he remained finished his thirty-second year. In as editor of that paper.

"Mr. Blaine," continued his senaaugust body at the time-"was one of and all because he could not get the the associate editors of the Kennebec raise in salary that he wanted, his Journal for two or three years after great political career would undoubthe first went to Maine to live. His edly have been considerably delayed, work in that position was so notice | and maybe-who can tell?-he might able that the owner of the Portland have become a great newspaper edi-Advertiser secured him as that pahundred dollars a year.

"As the end of the first year of Mr. Blaine's service with the Advertiser great newspaper, and had he remained approached, he and its proprietor had in Portland with the Advertiser a Bosseveral conferences about re-engage- ton or a New York newspaper might ment. Mr. Blaine thought that he have tempted him thither in time." ought to receive fifteen hundred dol- (Copyright, 1918, by E. J. Edwards.)

What Stood in the Way.

In a police court the other day, a

case was being tried, where the charge

was for a technical assault, and it

came out in the course of the evi-

dence that the parties were neighbors,

and had been on the best of terms for

"It's a great pity," said the magis-

trate, "that such old friends and neigh-

bors as you seem to have been should

"It can't be done!" said the plaintiff

moodily. "I thought of that myself;

Judged by His Company.

judge a man by the company he

Yes, sir," said old DeScadds, "I

"Thank you," rejoined youny Would-

"Thank me!" exclaimed the old man.

"Excuse me," said the young man,

"Why should you thank me?"

but the beggar won't fight."

many years.

out of court."

keeps."

get the papers now, I can address Proprietor of Portland Advertiser lars a year, and he was willing to bind them and they will catch the early himself for a number of years to the morning mail for Queenstown and so Advertiser if he could get the desired get to the United States several days raise of three hundred dollars a year. earlier than they could in any other The proprietor admitted that Mr. WHY. Blaine was perfectly justified in ask-"The porter pricked up his ears. 'Do ing the increase in salary, because he you come from the United States of was worth it; but, added the owner,

gone to Portland, and he had not been

at Allways-on-the-Go, said London An-

ture in the village club on Burns. For

weeks beforehand the hoardings and

the boardings shouled announcements,

appear here in such a way. Surely and when the appointed night arrived miliarity breeds contempt" more true

this is a case which might be settled the hall was full to overflowing. He than as regards corners. The motor-

swers, had consented to deliver a lec. dredger over it!"

America?' he asked. frankly, he could not afford to pay so 'Yes, and with me are two bishops much money. In those days, you of the Catholic church, and we have know-back in the late fiftles-fiftgen heard O'Connell speak tonight.' hundred dollars was a large sum of money down in Maine.

"'Sure, then, if you're from America,'-of course, the porter spoke with "Well, Blaine thought the situation a delightfully broad brogue-'you will over for some time, and finally came know my brother.' to the conclusion that he was worth "'Very doubtful,' I replied. 'Amerififteen hundred dollars a year, if he ca is a big country. What is your

was worth a cent, and that he did not brother's name?' "'It's McCarthy, sir.' sition for less than what he was "'What does he do?' worth. So, parting in a most friendly

"'He's a waiter in an inn, sir.' "What's the name of the inn?" "'It's the Astor Inn, on the Broadthere long when he was nominated way street in New York city, sir.'

"'What!' I said. 'Your brother, McCarthy, is a waiter in the Astor House?'

" 'Sure,' he replied. "'Then,' said I, 'I have to tell you that body he discovered wherein his that your brother stood behind my real ability lay; and so, I say, had he chair attending to my wants during torial colleague-both were in that not returned to Augusta when he did, the last meal I took in the United States before I sailed. He's my friend. McOarthy, the waiter, is.'

"The porter was overjoyed, while I was amazed, to think that in all the vast number of immigrants in the United States his brother should happen tor instead of a great statesman. I per's editor. The salary was twelve have always believed that Mr. Blaine House. Then the porter ran to the cherished at one time a strong secret press room and returned with an armambition to become the editor of a ful of papers, and I got them off by mail. And when I returned home I had his brother appointed to a good

> customs house." (Copyright, 1910, by E. J. Edwards.)

> > The Danger of Corners.

In no way is the old proverb "Fa-

Wanted Information

began with "The Cotter's Saturday ist who has safely rounded a bend in

Night," "Tam o' Shanter," and "The the road with which he is very fa-

Jolly Beggars," and was proceeding miliar a thousand times is apt to think

with "John Anderson," when there that the thousand-and-first experience

came an interruption from the back of will be as the others have been, free

the hall. "What is it, my man?" in- from danger, and that there will be no

quired the lecturer. "Hi, when are you obstruction, mechanical or animal,

Electric Heater.

of a low efficiency as far as light is concerned, but they give off a great deal of heat. . This heat is reflected out in all directions by the polished metal standard and from the base.

ELECTRIC ARC LIGHT AIDS

Through its Application Art of Photomicrography Received Great Impulse-Intensity Uniform.

The art of photomicrography received a great impulse through the a few unimportant motors-but on the application of the electric are light. Before then it was most difficult to secure good photographs of minute

objects magnified more than one thousand diameters, because the oxhydrogen light employed to illuminate the objects was not sufficiently uniform in intensity. With the electric arc light this diffi-

culty was largely overcome, so that trical conditions." fine photographs have been made of objects magnified five thousand diameters.

Microscopy is far ahead of astronenly bodies comparatively slight magnification can be used. A photograph of the moon with a magnifying power of 5,000 diameters would be a wonder indeed.

Steam, Electricity and Coal.

port branch of the Lancashire & York shire railway, it was necessary to run steam trains between the electrical paying clerkship in the New York forded an oportunity to compare the

that the six-wheeled, coupled-tank engines consumed \$0 pounds of coal per train mile for express trains, and The enthusiastic literary gentleman waitin' ter 'ear whether she'd best 100 pounds for accommodation trains. souse it wi' oil or shake the flour The consumption of coal at the power-

pounds per train mile.

Modern electric hoists are so designed that the speed varies with the load.

paratus has been devised for household use to remove stains from textiles.

phones is made flush with the transmitter case to avoid germ-catching

goin' ter give us a few 'ints?' came just out of view. But sooner or later corners. the reply. "Hints ?" repeated the pup. the unexpected happens, and nothing A 20-watt tungsten lamp gives onezled gentleman. "Yus, 'intsi" growled but great skill and the alertast fourth more light than the carbon filsout the man. "I paid threepence ter promptitude will avert a bad accident. ment lamp of 16 candlepower, on onecome in, 'cos you was supposed to And while it is true that in every inhalf the current. know all about burns, an' there yer stance and at all times a motorist on

A coin-in-the-slot electric curling-"but I thought you had in mind the stands, spoutin' potry like a parrot, the road is dependent not only on his iron heater for the use of feminine fact that I have been keeping company while my missus, who's upset a sauce- own actions, but on the actions of othpatrons of the hotels and other public with your daughter for nearly a year." pan of boilin' water on 'er foot is ere, this is especially true of corners. places has been patented

tically all fast boats require a rela tively enormous quantity of steam at high pressure, which can only be obtained from the bollers when highpower forced-draft fans are employed to supply air to the furnaces, and a slight diminution in their output has an immediate effect on the steam pressure of the boilers, and consequently on the speed of the engines

When, therefore, an electrical installa-

tion of more than 2,000 horse power

was thrust upon them with practically

no qualified electricians on board to

enlighten them as to its proper usage.

they naturally felt some trepidation.

and had little desire to attempt any

the speed of the ship should entirely

depend on the auxiliary plant, and in

explanation it must be said that prac-

"Perhaps it is not guite evident why

record speeds.

liaphragm, says Popular Mechanics.

The cup extends through the transmit

Dirt-Proof Telephone Mouthpiece.

over so as to come nearly flush with

the face of the case. The cup fits

close enough to the case to seal its in-

dust or dirt.

general use

terior from dust and dirt, but does not

USING ELECTRICITY AT SEA

aportant Part It Plays In Developing

A writer in the Electrical Review,

of London, gives an interesting ac-

count of the important parts played

ed attnined by the Mauretania, He

"Without in any way reflecting upon

ment of the designers' ideas.

Great Speed Attained by Im-

mense Ocean Liner.

and propellers. In the case of the Mauretania the forced-draft fans are electrically driven."

According to the writer, the entire dependence of the boat's speed on the electric generating plant is now thoroughly understood, and one of the first considerations is to keep up the volt-

age. Before this, it might drop 10 or 15 per cent, and the only result was a dim light and the slowing down of

Mauretania it is vital. In conclusion, we read: "It is strange, on the face of it, that

such apparently small details should be the means of converting a 23-knot boat into one of 26 knots; but it is no exaggeration to say that the records of the Mauretania are entirely due to a better understanding of the eleo

Electricity by Wind. It is said that all the difficulties in

the way of the generation of electricity omy in the magnifying powers that it by means of wind power have been can employ. It is seldom that a power overcome by a German firm, which has of so much as one thousand diameters just placed such sets on the market. can be usefully applied with a tele. The apparatus is entirely automatic scope, and in photographing the heav- and self adjusting, requiring no attention except upon the approach of a gale of unusual severity, when it is necessary to reduce the sail area of the wind wheel. The most important feature of the installation is a regulator which maintains a constant pres-

sure on the lighting circuit, without For a time, during the transition regard to the activity of the dynamo of from steam to electricity on the South- the condition of the storage battery.

Electrolysis.

The current that leaves the motor trains, at the same speed. This af- of the street car and seeks to make its way back to the power-house along coal consumption of the locomotives the track often comes to a place in with that of the power-house supply- the rails where it is much easier ing the electric trains. It was found traveling to jump off the rail to adjoining moist soil and then to a nearby water or gas pipe. All is well until this current leaves the pipe for some better path, when it takes with it bits of the pipe, finally producing a station for the electrical trains is 49 leak. This destruction of the pipe is called electrolysis .- Popular Electri

city.

Wireless Outfit for Police.

A part of the equipment of the new \$3,000,000 police headquarters in New York is to be a wireless telegraphy outfit operated from the dome. It is expected that branch stations will be established in outlying districts of the city and in other counties, so that if wires fail, communicaation may be

Immense Aqueduct.

The aqueduct which Los Angeles is building from the San Fernando valley, 240 miles distant, not only will be the greatest in the world, but will supply more persons with water and at the same time irrigate 75,000 acres of land and develop 60,000 electrical horsepower.

Three Dainty Dresses



THE dainty dress at the left is of | way, and a similar band forms the girwhite batiste trimmed at the bot- die. The tucked guimps and the put-

tom and around the yoke and fed undersleeves are of white batiste. eves with embroldery. The yoke The dress at the right is pink silk and the cuffs are of the batiste volle. The blouse is shirred at the finely tucked. The sash is of rib- shoulders and crossed in front; the bon finished in front with a sash end front is tucked and trimmed at the reaching to the bottom of the skirt top with lace. The collarette is of and ornamented with little pink roses. tulle, as are also the puffed under-The next dress is of old red voile. sleeves, the latter trimmed with nar-The front of the blouse and of the row bands of liberty. The sleeves skirt are made with crosswise tucks themselves are wide and cut in one and ornamented with buttons of the piece with the body of the walat.

naterial. The blouse is trimmed at The skirt is trimmed at the bottom he top with a tucked band of the with two overlapping ruffles of the maoile; the little sleeves and the bottom | terial. The girdle is of liberty, knot if the skirt are trimmed in the same ted at the left side.

oft handkorchdef.

a how on either side.

head.

| of satin ribbon and forget-me-nots. Would You Defy Age? Here are three excellent "Don'is" This, too, has a mushroom brim and shich help to preserve your youthfui- fairly high crown.

Don't wash the face in hot water Fagoting on Black. efore going out for a walk. It opens A black satin tunic gown seen rete pores of the skin and makes them cently was trimmed by two rows of fagoting, in light green and red, folove consitive to dust and dirt.

Don't use soap and water as seen as lowing in pattern the outline of the m return. Rub a good cold cream tunic. The work was finished off by to the face and whe it off with a z double row of French knots in alternate red and green. Dan't wrinkle the forchead when. The black net of the yoke was em-

corried or draw the brows together broidered in the same way, and by a a frown when bright light strikes row of little rose pearl buttons.

> A modish shirtwaist shows a frfil of white tucked lawn edged with dull blue and a strip of embroidery in

Then there is the prettiest little best hat that costs only \$1. It is of Patent leather belts with enameled fine white straw, trimmed with bows or isweled buckles are in the lead.

te eyes. Nothing ages a woman so New Collar and Frill. A smart-looking and serviceable hat buckle effect, with a darker blue for or general wear by a small girl is of the buckle and a shade matching the San Juan straw in a burnt color, hand- frill edge for the buckled strap. The pressed. It is in a shady, mushroom stock is edged again with the blue

ing in the under loops.

shape with trimming of red or navy lawn, and the smart little bow tie is blue ribbon around the crown tied into of the two shades, the darker show

ulckly as deep ridges on the fore-San Juan Straw Serviceable.

ELECTRICAL NOTES.

A portable electrolytic bleaching ap-

A new sanitary mouthpiece for telemaintained.