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Recent Progress in the Field of Electricity people who are not expert electricians a doubt will arise which his article does not dispel. Tuning, it has been repeatedly

ploying an engine which can be detached is inverted, thus establishing the quire! like a steam locomotive. The latter has long-distance connection, more convenient and economical is a ques-tion in which the operating companies will lie Liepzig, Krofeld, Plauez, Erfurt, Nufeel the chief interest, the public having remberg and Wieshaden.

as persuaded Mr. Mellen to try the overvolts. From the combination of an over- of any line completed in the world.

Oberwail-strasse, on a system resembling miner, was entembed.

system. In the third rail system all sur- form relative to the conversation, which have been reclaimed. ries 11.000 volts of electricity and is braced official in charge of the long-distance panel conduit tunnels are fed. Instead of allow- may contain many more items than the two in such a way as to prevent danger. The connects herself to the local exchange of lng the water of the river to fall nearly here considered. motors are operated by a contact bar the subscriber, which in turn advises the 1,000 feet on its way to the power house about four feet wide, which takes the local subscriber in question. At the same in small falls and rapids in its own bed. place of wheels used on trolley wires in time the telephonist at the local exchange it is taken through the numbel for a full operation of tralley cars. There is communicates to her colleague at the die- of only sixty-eight feet for practically. In this day of scientific study of the laws plenty of play on the bar; so that there tant exchange the number of the local cirthe whole distance, and its power thus of health and of deep research to over'Politics ain't no profession;
the whole distance, and its power thus of health and of deep research to overthe whole distance, and its power thus of health and of deep research to overthe whole distance, and its power thus of health and of deep research to overthe whole distance, and its power thus of health and of deep research to overthe whole distance, and its power thus of health and of deep research to overthe whole distance, and its power thus of health and of deep research to overthe whole distance, and its power thus of health and of deep research to overthe whole distance and sufferings of disthe whole distance are distance and sufferings of disthe distance are distance and distance are distance are distance and distance are distance are distance and distance are distance and distance are distance are distance are distance. Another of the notable points of difference exchange introduces her inquiry plug into in the methods of the New Haven and the local connection tack. If now the sub-Central companies relates to the manner scriber in question replies, the long-distance of moving suburban trains. The former plug having been inserted into another loputs the power in front of the cars, em- cal connecting tack, the transmission switch

adopted the "multiple unit" system, which The telephonist finally records upon a has worked so well on the elevated and form the details as to the duration of the underground roads of New York City, in conversation, and she transmits this form the first case the engine is switched from through the pneumatic tube to the checkone end of a train to the other. In the ing and collecting station. Similar longsecond the motorman makes the change distance telephone exchanges have been inof position. Which method will prove the stalled by Messra Siemens and Halske in

Uses for Electricity.

rent employed by the Central, says the the daring, number and commercial sucligible. In the operation of long lines it missions, drawing power for distances of wheels, which drive the four units or gen- and electric water heaters are also useful promotes economy in two ways. It re- simost 200 miles, has added another great erators in the power house, the water flow- adjuncts to the sick room. duces the first cost of line equipment and work to its list in the Kern river plant ing over into a tallrace and back into the involves less waste of power. Some of the No. 1, completed within the last few weeks. Fiver bed. faults which have hitherto characterized. This power house generates E.666-horse the motor employed with the alternating power and is the first of the power plants current have apparently been remedied by which 60.500-horse nower is to be de-

200 volts, whereas the overhead wire of line to Los Angeles, 117 miles distant, the the New Haven road carries one of 11,000 jongest distance for a pressue so high

already been predicted, but such forecasts through a concrete conduit tunnel out the New York Electrical Review by Mr. are premature. Fact counts for more than through the rock of the mountains and E Millian Trinks. The writer remarks that from which position he is now promoted. Berlin's Long-Distance Exchange. for a sudden drep of ST feet at an angle damped waves are employed. Several of these magazines the name of some man of these magazines the name of some man The new telephone exchange intended to of 46 degrees against eight impulse wheels methods of utilizing this principle, he says, Berlin and its suburbs and with trunk ing. It was in one of these tunnels been reduced to practice. From the com- try who started his railroad career as a services (anticipating a total of 12.00) con- through the mountains there are twenty pany which new makes use of it and which telegrapher. evrantions per diem) has been installed at in all, making practically a continuous controls the patents of Poulsen, a Danish. At no time in the history of the rati- fixed, and the following conversation en-

that which has for many years been in. Until the utilization of water power from electricians can determine whether the facts tunity to enter upon a railroad career with successful operation in London. It has mountain streams was developed the prob- which inspire Mr. Trinks furth are cor- as great a promise of promotion as there

INTERESTING TEST of rival laid, and it includes forty-two long-distance our obstacle to manufacturing growth. The same time within the same field of activity. systems of electrical propulsion switchboards for day operation, thirteen in- problem is now fast disappearing. It is it interference is the only trouble to be is now in progress in New York stalling switchboards, one distributing said in no other community in the country averted improved means of preventing it City. The New York Central and switchboard and four long-distance switch- is the consumption of electricity per capita might materially promote long distance the New Haven road, joint users boards for night operation. When a sub- so high as in Les Angelea and in no sec-wireless telegraphic projects. If it is not, ing a few miles, he sat down to rest. of the New York Central station, have in- scriber calle up the local exchange it cos- tion of the country, says Mr. Miller, out- the outlook apparently remains a little untroduced electric power for their trains nects him with the distributing switch- side of a small part of the natural gas certain. It is a matter of common knowlwithin zones of varying distance of the ter. board of the signaling exchange, at which belt in the middle west, are the rates for edge, for instance, that the range of a minal. The Central employs the third rail the calling lamp and at the same time power cheaper. Through pumping power given transmitter varies astonishingly from and shoe system of contact. The New the checking lamp are lighted. The official supplied by the Edison company 11:00 across day to day. At one time Hertz waves travel Haven chose the overhead wire or trolley in charge of the signaling panel fills in a of desert land tributary to Los Angeles much farther than it is necessary for them

power house is peculiar to California.

Further north in California, around San

Future of Wireless Telegraphy.

working voltage unfortunate results have novel. The river is deflected and carried may be found in an article contributed to sion of the Semboard Air Line and trainthrough the rock of the mountains then accurate tuning is practicable only where of the railroad magazines of this country the corner of Franzosische-strasse and underground conduit-that Hicks, the inventor of note Mr. Trinks expects a roads has there been presented to such notable announcement soon. Only expert the young men of America the opporaccommodations for 500 long-distance con- lem of fuel, which had always been scarce rectly stated or not, but in the minds of is now offered to them.

ductors, of which about 25 have now been and dear on the Pacific coast, was a seri- interference between messages sent at the to do. At another time they fall short face crossings are necessarily dispensed matic despatcher, situated between each 1991, after the completion of the survey variability in atmospheric conditions can be two working seats of a long-distance teleface crossings are necessarily dispensed is next transmitted by means of a pneu- Work on the plant was begun in May, of the intended destination. Until this phone switchboard, to the panel of the the river at the intake far up in the vice on which public favor must depend ings. Each of the four wires, one over long-distance exchange concerned in deal- lewer Sierras, backing the water of the will remain impossible. Moreover, the ing with it. If she can get through, the river up into a reservoir from which the chapter of embarrassments to be overcome

Electricity in a Sick Room.

through the steel tube directly above the case electricity takes no insignificant part. power house. It his the impulse wheels in the hospital of the modren type the at a pressure of almost 40 pounds to the fooms are heated with an electrical lumisquare inch. The conduit is smooth, con- nous radiator, which does not vitiate the crete lined, and the depth of the water air; the cooking is prepared in electrically is six and a half feet. The tunnel through heated utensils and the work about the the stone is nine feet high and eight building is accomplished with the aid of broad. President Miller says that it is electric power. Then, too, there are electric longest underground turned in use tric lights, ventilators, the cooling fans This use of a comparatively small body and the impatient telephone. The electroof water with a long head or full at the therm, or heating pad, displaces the old tower house is necessary to California but packs. The surgeon prepares his instru-The pressure main directing the water ments in the new electrical sterilizer. A from the conduit to the plant is a steel powerful magnet is used to assist in ex-tube encased in solid concrete and lying tracting pieces of steel from the eyes of underground from first to the feet beneath patients. The electric batteries are of great underground from fifty to 150 feet beneath assistance, to paralytics, and the electric "Dead!" crie ger of being thrown out of place by the body. A device has even been invented in The boy saw The preference given by Mr. Mellen to

California, which according to the United force of the water or from failing boulders which, it is said as electric current takes the alternating current over the direct cur
States census of 1940, excels the world in is thus avoided. Its maximum interior the place of either and lulis the sufferer diameter is seven and a half feet. Eranch foto insensibility while an operation is said -Harper's Weekly. New York Tribune, is perfectly inish cess of its long distance electric trans- pipes deliver the water to the impulse being performed. The baby milk warmer

Prancisco, are two transmission lines from The Ratirond Gazette in a recent number mountain power houses, longer than the made mention of H. W. Stanley, new sualmost the only misgivings now enter, veloped from the Kern river, a stream in Kern River line. They are the lines of perintendent of the fourth division of the tained regarding the expediency of using the south central part of Campornia, rasses the Day Countries Landerd Electric companies. The conducting it to an engine and to the present and other present and other present and other presents are voltage adopted. Mr. Westing. of the Edison Electric company of Los on the North Yuba river, 140 miles away. sure or voltage adopted. Mr. Westing. Angeles, which is carrying on the work. The second runs its lines its miles to the Fig. to succeed Mr. Walter Hale, resigned. ind rail as a source of danger, and he of Nicora, but menhably its most novel. of Ningara, but probably its most novel ever, is the power generated or the pres- burg (Va.) High school and entered railhis persuaded Mr. Mellen to try the over-feature, according to Mr. Miller, lies in the feature, according to Mr. Miller, lies in the feat that the present M.000-borse power, river plant. successively as agent train dispatcher, chief clerk to superintendent, chief clerk to A fresh expression of confidence in an general superintendent and general manhead conductor and an unusually high Then, too, the source of the power is ultimate triumph of wireless telegraphy ager, trainmuster of the Birmingham divi-

> master of the third division of that road. You cannot pick up a single issue of any

Gleanings from the Story Teller's Pack

Chicago, who is a great walker, predestination and free will? was recently out for a tramp

"Want a lift, mister" asked a goodnatured Maryland farmer driving that way. "Thank you," responded Mr. Lorimer, "I will avail myself of your kind offer." The two rode in ellence for a while. Presently the teamster asked: "Profes-

glonal man?" After another long pause, the farmer ob-

ain't got no satchel, and you shore ain't a preacher, from the looks of you. What is your profession, anyhow?" "I am a politician," replied Lorimer. The Marylander gave a snort of disgust, one repeated. "Politics ain't no profession; politics is

A lady who had recently moved to the suburbs was very fond of her first brood of chickens. Going out one afternoon, she left the household in charge of her 8-yearold boy. Before her return a thunderstorm came up. The youngster forgot the chicks during the storm, and was dismayed, after it passed, to find that half of them had been drowned. Though fearing the wrath to come, he though best to make a clean breast of the calamity. rather than leave it to be discovered. "Mamma," he said, contritely, when his mother had returned-"Mamma, six of the chickens are dead."

"Dead!" cried his mother, "Six! How The boy saw his chance.

An Absent-Minded Canon.

A good story is told of a learned canon of the Anglican church in Canada who is lidge. "Simplicity saves us a lot of trouble. a very thoughtful and studious man, but too. said to her mother: "Oh, mother, father listened in a dare. has gone off and left his bug behind. I will run after him with it." Which she cluded, 'perhaps you will coincide with were being made man and wife. did, and when she arrived at the station me?" she found the canon walking about with the coal scuttle, which he had taken up in place of his bag.-New York Tribune.

Couldn't Corner Him.

City Sperintendent of Education William H. Maxwell is telling a good story about a young medical friend of his who is interin insanity symptoms, and is a sort of amsteur alienist. The other day the student got a chance to visit one of the Mattenwan, and having heard that there der the hallucination that he was God, the feat with the telephone business between which start the generating muchinery mov- have been devised, but only one has yet of the great railroad systems of this countries from the most of the great railroad systems of this countries. Prom the most this patient first, as he appeared the most promising for investigation. He was taken a vacant seat when it is too wet for gulf to the ward where the lunatic was non- or metoring."

Student-Are you the Derty? lasting, I am he.

for a long time. I have a question to ask were interesting. I used to like to hear her EPRESENTATIVE LORIMER of you. How do you reconcile the doctrines of talk of them

shop."-New York Times.

Why Their Paths Diverged.

gether last summer are planning to travel said Mrs. McKinley. "Yes." answered Lorimer, who was were not especially congenial. The final Chronicle-Telegraph. thinking of a bill he had pending before blow fell when, passing a cathedral in a ear for music and a taste for the divine served: "Say, you aim't a lawyer or you'd and beautiful, leaned over to his companion be talkin'; you sin't a doctor, 'cause you and remarked:

"Aren't those chimes splendid?" "What" inquired the other, not taking

his eyes off his paper. "Aren't those chimes superb?" the first

"Oh, wait till we get farther on," was the curt retort. "Those damn bells make so much noise I can't hear you."-Brocklyn

His Profession. house not far from the road. Hurriedly of the fluid to Sam as follows: found out that a little boy had swallowed the dynamo and goes into the wires and what to do, had become frantic.

dropped to the floor.

"Well, mister," said the grateful mother, Sun. "you cert'n'y knowed how to get it out. Air you a doctor"

"No madam," replied the stranger. "I'm

Simplicity's Saving Grace.

very absent minded. One morning he was "Two men met in front of the Blank on a train speeding to Crown Point, Ind., going from home and had his handbag hotel the other day and fell into a political and concluded in the Indiana town, where packed and left in the hall, as he intended argument. They were ordinary, every-day Miss Onthank and Gilbert H. Ayling, a walk to the railway station. After he sort of men, but one of them had an ex- Chicago medical student, were married by had left the house his daughter came into tracedinary flow of polysyllabic language. a justice of the peace. Meanwhile the the hall and saw the bag still there, and He talked half an hour, and his companion policeman-father, with eagle glance, was

"The other's face brightened up. room door. "I don't care if I do "-New, Greina Green.

Way the Weather Works.

ropos of Sabbath breaking: wards in the asylum for the ineans at the other day about his church attendance. "I suppose.' I said, 'that in your diswas a man confined there who labored up- trut rain affects the attendance consid-

> "He smiled faintly. " Indeed, yes,' he said. 'I hardly have

The Good Provider.

"Though Mrs. McKinley," said a Canton

"She once told me about a colored widow, The lunatic drew himself up to his full whose children she had belped to educate. along the conduit road leading height, and, giving the medico a scornful The widow, rather late in life, married. A from Washington, when, after go- glance, replied. "My dear siz, I never talk few months after her marriage Mrs. Mo-Kinley asked her how she was getting on, "The a-gittin on fine, thank ye," the bride answered.

The college boys who, went away to- "'And is your husband a good provider?"

separate paths this year when school closes. "Theed he is a good providah, ma'am, They went to Europe together, but found was the reply. He got me five new places before they had gone very far that they to wash at dis las' week."-Pittsburg

trolley car, one of the students, with an | The would-be suffragette was having the Answered. usual dinner table argument with her al-

leged lord and master, when that unhappy individual, finding himself in a close corner, ventured the unfortunate query: "How on earth would you earn a living

I don't know, John," the lady replied. "If I lost you. I don't know where I'd get another job .- Harper's Weekly.

Sam, a negro servant of a Harrisburg family, is very ambitious to appear well informed on all subjects. His master had A passing stranger was attracted by installed electric lights throughout the frightful screams coming from a little house and was explaining the workings tying his horse, he ran to the house and "You see, the whole thing comes from

a quarter, and his mother, not knowing then into the lights. Now, do you under-Stand? The stranger caught the little fellow by "Yes, said Sam. "I understand all

his beels and, holding him up, gave him a "bout dem dynamos and other things, but few shakes, whereupon the quarter soon what I wants to know is how do the kero-

Policeman Outwitted by Daughter.

A sleuth outsienthed by his daughter if "I think-I think they died happy," he a collector of internal revenue."-Philadel- the position in which a Chicago policeman who nightly ornaments a beat out of the West North avenue station is placed. Charles F. Onthank is the frustrated of-"I like simplicity," said Senator Bever- ficer. His daughter, Irone, is il years old, The sleuthing process, relates the Record-Hernid, started in Chicago, continued scouring the town, scarching every place "'And now," the speaker pompounty con- but the room in which the young people

> Anonymous communications, a broken engagement, tears and a hardly wrung "'Why, yes; thanks, old man,' he an- parental consent all figure in the remance swored, heartily, moving toward the bar- ending in the elopement to Indiana's

> A month ago Miss Cuthank's engagement to Harry Thompson said to be connected with the city police department, The witty Bushop Sanford (Simstead of was announced This little formally, how-Colorade at a dinner in Denver said ap- ever, in no way obserted the friendship between the young woman and Ayling, Who nightly travaled from the South Side to the Western avenue home to visit

> > Neighborhood gossip linked the names of the young people, and only on the Onthank telephone tkept mombers of the policeman's family busy denying that the daughter was going to marry the medi-

/ Cardinal Gibbons has been asked to Lunatio-From everlasting unte ever-olergyman, left an estate of about fiscion, christen the Princess Poccountas, a Fill-asting I am he.

Student-Well, I've been booking for you in Ohio. Hor experiences in charity work fair in August.