well, the light was steady and of found to be greater than for gas. Tests made at Glasgow Scotland were very satisfactory, of the Crompton lamp with a Gramme machine. Mr. Hiram T. Maxim, of New York, has gained great notoriety by some modifications and improvements in electric lamps, which highly spoken of English scientific journals. is claimed in this country

that Maxim is only a plagrarist and that he has borrowed his ideas from Edison's productions. But a similar charge is made against Edison; and Professor J. W. Swan, of England, claims priority of discovery in the essential points of Edison's "invention." Twenty years ago Swan designed and constructed a lamp in which an arch or horse-shoe of carbonized paper was employed, and made incandescent in vacuo. But in consequence of difficulties similar to those which have since beset Edison, the lamp was abandoned. However, Mr. Swan, by subsequent experiments, has overcome the obstacles formerly in his way, and has constructed a lamp which Engineering pronounces "the most important step that has yet electric light for street illumination. be buried at once. A person was been made in the economical application of electricity to the production of small lights." Not only has he secured the complete vacuum so necessary to continuous incandescence from carbon, but the "carbons" he has constructed are so prepared by a process of his own, that instead of consuming, as those of the Brush and other lamps, they neither waste away to any appreciable extent nor deposit any particles, but, while no thicker than friars Bridge, New Bridge Street, a hair, a e "as hard and elastic as a Ludgate Circus, Ludgate Hill, piece of tempered steel wire and the north side of St. Paul's Churchhave no tendency to fracture."

carbon lamps was the blackening of light. The second district embraces the globes and the consequent ob- Southwark Bridge, Queen Victoria scuration of the light. Mr. Swan, Street, the lower part of Queen after many troublesome experi- Street, and Queen Street Place, and ments, found that "when the will be lighted by the Jablochkoff vacuum within the lamp was good method. The third district inand the contact between the carbon | cludes London Bridge, the upper and the conductor which supported part of Queen Street, and of it sufficient, there was no blacken- Cheapside, King Street, Guildhall ing of the globes and no appreciable | Yard, the Poultry, Mansion-house led him to further trials, until he William Street and Adelaide Place, was able to perfect a lamp free from and will be lighted by the Siemens all these fatal objections. Mr. system. Swan has come nearer to solving The Brush lights will be 32 in the problem of the division of the number replacing 150 gas lights, beelectric light for household and ing fixed on posts not less than 13 street illumination than any other feet above the ground, with wires electrician living. And he claims leading from the Anglo-American to have accomplished the supposed Light Company's works at Lambeth impossibility of storing up a reserve and from post to post overhead, exforce of electricity, by which the cept where they cross the streets lights may be maintained notwith- where they will be under ground. standing the breaking of an engine The Jablochkoff will have 12 lights or obstruction of the dynamo ma- replacing 161 gas lights, and be the chine.

ity of greater improvements, in a lamp to lamp and across the streets short time, than have yet been at- on high posts. The Siemens will tained in the process of electric consist of 32 lights, 26 small and 6 lighting, and hence the wisdom of large ones, replacing 138 gas lights. caution and deliberation before en- The large lamps will be in clear glass tering into agreements which may globes with umbrella shaped reflectbind the parties to the use of a sys- ors and will be placed on posts from tem that in a short time will be su- | 70 feet to 80 feet high, while the perseded by something far superior small ones will be in partly frosted and less expensive. Let others ex- glass globes, and placed on posts the prudent look on and gain the derground. benefit.

THE UTAH QUESTION.

THE Sacramento Record-Union in commenting on the Utah portion of the President's message says:

"The President is quite severe on While still on this subject we will Mormon polygamy, and urges upon touch on a point connected with it Congress the duty of abolishing that on which there is some misunderinstitution. It is evident that he standing. It is generally supposed has not studied the question suffi- that there is no danger at all atciently, and that his ideas upon it tending the electric light, but that it are rather ecclesiastical than states is "absolutely safe." This is an ermanlike It is not an easy matter | ror which ought to be corrected. Mr. to enforce laws which are obnoxious W. H. Preece, of the Society of to the whole community, and this Telegraphic Engineers, a short time his southern experience should have ago, addressed a communication to taught him. His recommendation the London Times, showing that that the Territorial government of "the wires conveying the electric Utah be reorganized in order to give currents may themselves be conveyeffect to congressional legislation is ing energy in a form as insecure as a not at all to the purpose. Any such train of gunpowder," and that even CONSUMPTION, COUGHS, policy would be sure to help Mor- if coated with gutta percha or indiamonism by lighting the flames of rubber, like the copper wires used fanaticism, while it would merely in telegraphy, the coatings are liable All diseases of the Throat, Lungs, confirm and intensify the devotion to injury, when the currents may of the Mormons to plural marriages. escape to earth, generating heat and The question is one to be dealt with producing fire. He shows that in ALLEN'S LUNC BALSAM in the most cautious manner. Vio- lighting mines the wires can only be lent methods can only make bad rendered safe by costly cabling. He fluences now in operation will des- cidents is a thousandfold greater troy polygamy if they are suffered than with telegraph wires, and he to work quietly, but no coercive asserts that several offices have been measures can eradicate an evil so fired even by the weaker currents entrenched by superstition and self- employed in telegraphy. He also reinterest."

good color, but the expense was graph but expresses a very general cautiously touching certain exposed gravity any such ridiculous and un- steamship Livadia from a similar republican measure, as to that which cause, and recommends the employhimself to be committed, nor do we keep atmospheric electricity out of think that any public journal of influ- collieries, rather than the erection of ence will endorse it. The New York apparatus to convey electric currents Herald it appears would prefer the within them. heroic or military treatment of the "Mormon" question, but such incendiary and murderous sentiments are as little likely to be seriously enter- from the Clyde to Brest. A stoker tained, as the scheme of two or three politicians who want to control this lamp, which was about to be hung Territory, and are foolish enough to up, to light the stokehole. He graspthink Congress will consider their ed the lamp by a brass rod which enlittle plot just because an Executive, circled it, and at the same time who is just going out of office, has happened to touch one of the bare been incautious enough to recommend it in a ponderous public document.

A LITTLE MORE ELECTRIC LIGHT.

LONDON, the great metropolis of Great Britain, is about to test the We learn from London papers that a civic commission, to whom the subject was referred, have decided of an electric lighting apparatus. to light three districts of the city with the new illuminator. Offers were made by the representatives of various systems, and three of them were selected, namely, the Siemens, the Jablochkoff and the Brush.

The first district comprises Blackyard and part of Cheapside. This Another difficulty in the way of will be illuminated by the Brush wasting away of the carbon." This Street, The Royal Exchange, King

same kind as at the Thames Em-All this goes to show the probabil- bankment, the wires hanging from periment and bear the cost, while 20 feet high, the wires running un-

> This adoption of three different systems will be of benefit to those cities which are investigating the subject of electric lighting, giving good opportunity of testing the advantages and disadvantages of the rival methods, as well as probably suggesting improvements in

worse. It is quite possible that in also argues that the liability to ac-

The Record-Union, in this para- musician in Birmingham, by insentiment on this important ques- parts of the conductors conveying tion. We have not the least fear the currents for electric lamps, and that Congress will entertain with the terrible death of a sailor on the the President has unwisely suffered ment of protecting instruments to

> The fatal accident on the Livadia alluded to by Mr. Preece, took place while that vessel was on a trial trip was requested to hold an electric wires conveying the electric current. He fell dead in a moment. His body being interposed in the track of the current, which is tremendously powerful, he received the shock from arm to arm right across the chest. His death was proven not to have occurred from heart disease, superinduced by the shock, but from actual rupture of the tissues, the discharge being such that he had to also killed at Manchester, England, not long since by incautiously touching the exposed connections

> We do not cite these instances as any argument against the adoption of the electric light, but merely by way of caution. Numerous accidents have happened through ignorance in the manipulation of gas, and so with other agencies used for the benefit of mankind. There is no good thing on earth but may be diverted to evil through ignorance or malice. Unskillful persons should not be permitted to handle electric lamps, or interfere in any way with the apparatus used in electric lighting, and great care should be used in the conducting of wires from point to point, or, when the new illuminator comes into more general use, we shall hear of mysterious fires and unaccountable conflagrations, and incendiarism will be charged with many more catastrophes which ought not to be laid at ts door.

The invisibility of the subtle force called electricity constitutes one of its great dangers, and wherever it is used in such power as is necessary for electric lighting, the greatest possible precaution should be exercised to prevent the terrible results to life and property which may be the effects of so-called "accident."



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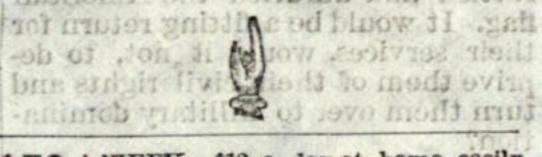
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