

THE FIELD OF ELECTRICITY

Development of the Modern Marvel in a Quarter of a Century.

AMERICAN AS AN INDUSTRIAL GIANT

Instructional Review of Progress in One Department of Human Activity—Cause of Hissing in Arc Lamps.

The recent electrical exposition held in New York City brought into review the marvelous development of electricity as a power and innumerable appliances by which the current contributes to the industrial progress of the nation and to the comfort of mankind.

Table with 2 columns: Item and Amount. Includes 'Invested Capital', '52,000 electric railways', '2,385 electric light central stations', etc.

All the wonderful progress of the electrical art during this quarter of a century. The development of electro-chemistry is shown by the production of chemical compounds by means of electricity.

The Telegraphic Network.

The telegraph, which may be called the pioneer in modern electrical engineering, has made rapid strides within the first decade, and there are now about nine hundred thousand miles of telegraph wire in the United States employed for telegraphic purposes.

Means have been devised within recent years, however, to lower the first cost of installation of a telegraphic plant and to increase the speed of transmission.

The Telephone.

But two decades have passed since the telephone was exhibited publicly for the first time in the United States, yet during that time its growth in this country has been so rapid that about 750,000 telephones are in use today.

The well known fact need not be reiterated here that the electrically equipped roads in this country are far in excess of all horse and cable roads combined, and the change from the latter to the former is constantly taking place.

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Carlow Gets Off. John Carlow, who was accused of burglary by John Rush, 1323 Martha street, was discharged by Judge Gordon.

Breaks Open Saloon. Thieves entered the saloon of J. C. Tague, 2802 Sherman avenue, Wednesday night and extracted \$80 from the cash drawer.

As the mercury goes up, fires Root goes down.

ing the year were worth about \$500,000. The value of the machinery and apparatus manufactured in the United States during the year 1898 for use in electrical plants was about \$70,000,000.

But after all we may well ask ourselves the questions: What is electricity? What is the ether? What will the more direct and economical production of electricity consist of? When the steam engine will have been relegated to the scrap heap, will electricity be produced direct from coal, the dream of the philosopher and scientist, or will electro-chemistry solve this great mystery of nature?

Hissing of the Arc Lamp. At a recent meeting of the Institution of Electric Engineers at Philadelphia a paper was read by Mrs. Ayrton describing experiments on that curious phenomenon, "The Hissing of the Electric Arc."

So long as the crater is confined to the end of the carbon hissing does not occur, but as the current is increased the crater spreads, finally enveloping the carbon sides, the potential then drops and hissing takes place.

Beginning of a Friendship. Upon their arrival at the little store where he was employed Armstrong and one of the Clary boys entered the store, spoke to Mr. Offit, the proprietor, and then the two young fellows behind the counter was Abe Lincoln.

Starting a Balky Horse. A Pennsylvania gentleman owned a horse that would have been valuable but for what seem an ineradicable vice of balking, says the Youth's Companion.

Awkward Abe's Success. Passing over now about twenty years we come to the year 1857. Lincoln had become a great lawyer, had been in congress, and was now a candidate for the United States Senate.

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Acting Inspector General for This Department Will Succeed His Predecessor in Denver.

Captain Frank D. Baldwin, Fifth infantry, has been ordered to report to the commanding general of the Department of the Missouri, and to act as acting inspector general of that department and in the Department of the Missouri.

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HIS MOST FAMOUS CLIENT

Lincoln's Defense of Duff Armstrong and the Almanac Episode of 1857.

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How a Fight Ended in a Friendship Most Valuable to the Armstrong Family—Impugning the Star Witness.

A few days ago in the lonely little village of Ashland, not many miles from Springfield, Ill., there died a man who but for the fact of a personal acquaintance with a great man would have departed this life without attracting any more attention than thousands of other humdrum men.

The man who died was William (alias) Duff Armstrong, relates the St. Louis Republic. The great man whom he knew was Abraham Lincoln.

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TAXPAYERS FOOT THE BILLS

When Democratic Commissioners Seek to Make Places for Their Favorites.

COST OF PAYING POLITICAL DEBTS

Additional Expense of \$2,000 a Year Involved in the Change in the Auditing Department Alone.

Since the majority members of the Board of County Commissioners have succeeded in engrafting a rejuvenated auditing department on the county pay roll to the unmet satisfaction of some of their friends, who thus give lucrative positions in the county building, some of the county officials have been doing a little figuring to ascertain just what this political luxury will cost the taxpayers.

Under the old system the work of both departments was accomplished at an expense for clerk hire of \$560.83 a month. Under the new arrangement the cost of running the two Northern desks that took the same item and that of the auditing department is \$239.83, or a total of \$725.83.

Under the plan favored by the majority of the commissioners the work that was done by the auditing department with its regular duties in the county office and with the assistance of Mr. Deuel and Miss Truland is turned over to a bureau of four employees, whose time is to be devoted exclusively to the auditing of accounts and reports.

The increased cost of nearly \$2,000 a year does not promise any better results than were obtainable under the more economical system. It is even asserted that the auditing was done more satisfactorily under the previous arrangement than it can possibly be done by a distinct department.

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Stirring Picture of Their Spirit and Bearing in the Stress of War.

Here is a stirring picture of a New England man by a member of Battery A, Utah light artillery, United States volunteers, and published in the Springfield (Mass.) Republican. It comes from the camp of the volunteer soldiers of the United States that will move every reader.

LIVING IN THE KLONDIKE.

Some of the Methods by Which Life is Sustained There.

One of the pioneer gold seekers Dr. Sweeney was fortunate in meeting with George W. Carmack, the discoverer of the Klondike, and from him he gathered much interesting information concerning the habits of the Indian tribes on the Yukon and the white men who long before the discovery of the treasure hidden beneath the frozen mines and gravel of the Klondike lived with them and shared the hardships of their daily life.

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When the children's best clothes come from the wash with the colors faded and streaked, and with worn spots showing in places where there should be no wear, then you may know that your laundress is using something besides Ivory Soap.

You can save trouble and expense by furnishing her with Ivory Soap, and insisting that she use it and nothing else. The price of one ruined garment will buy Ivory Soap sufficient for months.

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have seen men die so. The memory of it will make one stronger and better. You are, of course, interested in knowing what the field I was on. I served on one of the two Northern desks that took the same item and that of the auditing department is \$239.83, or a total of \$725.83.

Every one knows that to a white man, at least, salt is a necessity and not a mere flavoring matter. In answer Carmack told me something that was entirely new to me. He said that the Indians made it a practice not to throw away the water in which they boiled their meat, but allowed it to remain in the kettle. In course of a short time, he told me, the water or broth would become extremely salty and could then be maintained at whatever degree of saltness deemed desirable by the addition of fresh water to replace some of the salt broth dipped out and thrown away.

Move to Dismiss Eno's Bill.

NEW YORK, June 22.—A motion was made in the court of general sessions today to dismiss the bill of John C. Eno, former president of the Second National bank, who defaulted for \$3,000,000 of the bank's money and fled to Canada. There were twelve indictments found against Eno June 11, 1894. Eno came back from Canada February 1, 1895, after his father had made good the loss to the bank and was admitted to \$10,000 bail, his bond being furnished by Benjamin Knower and J. Hicks Bloodgood of this city. The district attorney's office made the application for the dismissal of bail stating that the defendant had never displayed any intention to avoid the jurisdiction of the court. A letter from the officials of the Second National bank was presented, in which they stated that they would be satisfied with any disposition of the case the court might make. The judge took the papers.

Fitzpatrick's Murderer Escapes.

ST. LOUIS, June 22.—A special to the Post-Dispatch from Cairo, Ill., says: Reports from Mound City say that Mike Tobin, who yesterday shot and killed James Fitzpatrick, has not yet been captured. Police are still searching for him, and it is possible that he has given them the slip.

Four young ladies, who earn their own living, will take vacations at The Bee's expense. Help your friends by saving coupons.

Eyes are Accommodating

They'll see—maybe quite well, through a pair of glasses you pick from a basket—but nature bests a sheriff in forcing a collection of her debts—and fitting one's self to glasses is risky—terribly risky—the assurance that we give you in furnishing the proper glasses places you beyond all risk—Free eye examination.

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