

CHANCES FOR THE INVENTOR.

Fame and Wealth Awaiting Him in Many Fields—
Many Electric Lighting Problems Need Solving.

A few months ago a corporation paid to Prof. M. I. Pupin of Columbia university, a fortune for his invention of ocean telephony. This transaction typifies the new conditions in the world of invention.

Many of the ablest inventors of past years have enriched other men, but have amassed for themselves little except fame—and that mostly posthumous. Henceforth the inventor's profit will be great and sure, and not he but the capitalist will assume the chances of failure.

It is significant that the greatest optimists as to the future of inventions are to be found among the men who have the best opportunities of judging the future along this line—the officials of the United States patent office. In discussing the subject the other day, Frederick Allen, United States commissioner of patents, said:

"I certainly do not agree with those persons who consider that we are approaching the end of invention. I believe that the whole creative realm will go on developing and expanding in proportion to the growth of the nation."

"The business of this office shows it. During the past quarter of a century there have been issued in this country more than 500,000 patents or over three times as many as had been issued

great twin educational factors, it is not difficult to see how the marvelous achievements of color photography and motion pictures have only just begun to unfold their possibilities.

Printing without ink is an accomplished fact, and it is only reasonable to expect the substitution for the tri-color printing process of today the multi-color printing process of tomorrow. In other words, whereas the best printing process yet invented has been able to print in three distinct colors at one impression, the presses of the future will transfer to paper imprints embodying perhaps a dozen different colors.

Every citizen is bound to benefit by the boon to be brought by the area of invention embraced in the next quarter of a century, for the reason that many of the luxuries of the present day will be brought within the reach of a vast proportion of the population. The members of the gentler sex will be enabled to wear fabrics of the most delicate hues with absolute certainty that the stuffs can be faded by neither sun nor rain; they may purchase at moderate prices cotton and wool garments which by means of the perfection of the mending process will be undiminished from silk and finally, they can, in all probability, rejoice in manufactured diamonds that will possess every attribute of the most precious of gems.

Similarly, too, the family of moderate means will fare better on the same income than is possible today, for the reason that quicker and cheaper trans-

WIRELESS TELEPHONE WORKS.



From a test recently made at Murray, Kentucky, there is strong reason to suppose that Nathan Stubblefield, an eccentric electrician, will rival Marconi's fame as a discoverer. Stubblefield and his 14-year-old son have invented a wireless telephone that appears to work perfectly.

In the three-quarters of a century preceding it.

It is difficult to predict along what lines invention will be most operative. Certain it is that the evolution of new things will go on in constantly increasing proportions.

The imaginative mind naturally foresees the greatest possibilities in the fields of electricity, aerial navigation and the harnessing of the great power forces in nature. It is interesting to note that this view has the support of Charles H. Duell, lately commissioner of patents. In discussing the matter, Mr. Duell said:

"In my opinion all previous advances in the various lines of invention will appear totally insignificant when compared with those which the present century will witness. I almost wish that I might live my life over again to see the new wonders which are at the threshold."

"It will be but a few years until the residents of all our larger cities will be consulting the time-tables of aerial bee lines to New York, allured by such advantages as 'no smoke' no dust, no heat; each private residence will be provided with its own cooling room and cooling devices for houses which will make bearable any climate under the stars and stripes; the sun and the wind will be completely harnessed and possibly the waves as well; automobiles will be in universal use and quadruplex apparatus should bring the telephone service down to about 10 cents a month."

Probably the field which will give forth the most wonderful inventions in the next quarter of a century is that of electrical science. Within the past few months devices have been patented which will enable Americans to talk with their cousins across the sea; which permit telephone messages and signals of various kinds to be transmitted through the earth or below the surface of the ocean without wires; which cause telephone messages to be recorded automatically and repeated mechanically hundreds of times; which make it possible to transmit colored pictures by wire between distant points and enable the dispatch of six-page telegraph messages over a single wire.

The future of electricity and of the whole transportation world waits upon the discovery of some means to harness the magic current and house it in tight and compact form. For nearly a third of a century inventors have been seeking to devise a storage battery that will answer all requirements and the inventor who first produces it will obtain wealth and fame.

A cheap, compact and durable storage battery will make possible electric airplanes, steamless locomotives and horseless carriages of a character more nearly perfect than has heretofore been dreamed of. Automobiles, the popular vehicle of the dawning century, have within a few months declined in price owing to the improvement of equipments, but the discovery of the sorely needed storage battery would eventually make them their wish of all.

The discovery of a practical storage battery will open a new era for the electric railway and hasten the day of electric propulsion for long distance express trains for mail and passengers. Even the subject of electric lighting has not been exhausted by any means. Greater brilliancy and the saving of the electrical energy now wasted in lighting systems are the goals to be reached, and a beginning has been made by the recent introduction of a modification of the old incandescent, whereby the mixture of oxides as a light emitting element has served to produce a glow which is more brilliant than an incandescent light and yet not so dazzling as an arc.

Supplementary to the electrical inventions proper will be the discoveries which may be expected in the field of electro-chemistry. The new science, already this new science has pointed a way to rich gold from ores which no other process could induce to release it and the newcomer among the sciences has in the purification of water.

For photography and printing, the

ABIJAH SMITH WAS THE FIRST AMERICAN COAL DEALER.

One of the Derby dealers, in speaking of the coal business in this vicinity the other day, called attention to the fact that the first coal ever mined in this country was taken out of the earth by a Derby man, who afterward offered the first cargo for sale. This man was Abijah Smith, father of the founder of

Birmingham, who lived here many years. The story is that Abijah Smith heard through some man, who had been traveling in Pennsylvania, and who, passing through Derby on his way home, stopped at Smith's blacksmith shop to have his horse shod, about a "black stone" in Pennsylvania which

would burn. The result of this conversation was that Smith made a trip to Pennsylvania and eventually located there. He left Derby in 1805, and in 1807 mined fifty-six tons of coal in Plymouth, Pa., at the old mine now rented to the Lehigh & Wilkesbarre Coal

FACES TRIAL FOR INFANTICIDE.



Great interest attaches to the case of Mrs. May Fenton Haines, accused of murdering her baby step-daughter, Gwendoline Haines. The above half-tone shows the portraits of the child victim, the accused woman and Mrs. Minnie Frank Haines, the dead mother of the alleged murdered child.

company and known as the Smith red ash coal. In November, 1807, he purchased a boat, which was called an "ark," for \$24, and on November 4 this boat was loaded with fifty tons and floated down the Susquehanna river to Columbia, where the German settlers looked with wonder at this "black stone" and thought Smith must be crazy to think of selling such stuff.

It is said that to demonstrate the utility of the article, Smith arranged with the landlord to use his fireplace and placing in it a grate especially constructed, started a fire on which coal was piled. The members of the party watched to see the black stone burn, but after some time the wood burned out, leaving the coal ignited in only a few places. Smith invited the party to take dinner with him, promising another trial after dinner.

But after dinner, upon the party's returning to the room in which the grate was located, the Smith brothers to see the coal burning fiercely. There were people from many cities present when the test was made and the wonders of the new fuel rapidly spread over the country. Being joined by his brother, John Smith, Abijah Smith in 1808 began shipping coal to various cities and continued in this business until it became very successful. Three ark loads were sent to New York by way of Havre De Grace in 1809.

There are two stories of what became of this coal, one being that the people carried away the entire 150 tons as curiosities, while the other is that it was sold. Whatever became of this first cargo of coal, the Smith brothers gradually built up a large business. It was hard to introduce because it was expensive and unknown, but it gradually made its way. For a number of years the average annual sales for the whole country was six ark loads, or 200 tons, and the Smiths enjoyed a monopoly more complete than any man or combination in the business has ever since enjoyed. Nearly all the early operators, except the Smiths, made failures of the work of mining.

The first coal was brought into Derby in 1807 by Abijah Smith upon his return to Derby from Pennsylvania after his first trip. It was only so much as he could bring along in his pocket and it was looked upon as a great curiosity. That was 94 years ago, and since that time the coal shipped here has been enormous.

In 1829 the annual product for the whole country was less than 1,000 tons. In 1879 the amount shipped to Derby was 35,000 tons, and it is estimated that today Derby, Shelton and Ansonia receive and consume annually about 60,000 tons of anthracite and 15,000 tons of bituminous coal, or a total of 75,000 tons. The amount Abijah Smith brought to Derby in his pocket in 1807 weighed about one pound. Today the amount which comes here is about 145,000 tons.—Ansonia Sentinel.

A WOMAN'S SUCCESS.

AN INTERESTING STORY OF HOW SHE ATTAINED IT.

For a Long Time It Seemed That Good Fortune Would Not Come—An Apparent Trifle Brought It About.

As with many other women, fortune lingered a long while before coming to Mrs. Knowles. But finally a trifling occurrence brought it to her. Mrs. Geo. M. Knowles lives at No. 16 North street, Portland, Me., and when a reporter visited her to learn the facts of the case, she said:

"For a year and a half I suffered tortures from rheumatism. When I rose in the morning or when I got to work after I had been sitting down for a while, my joints became stiff and I could not move easily as I did before the rheumatism set in. My feet ached and I could not walk without limping for some minutes after I started out. It was very painful and I felt a great deal with my household duties."

"How did you succeed in becoming cured?" asked the newspaperman. "It was one of those apparently little things that brought it about," replied Mrs. Knowles, with a smile. "I had been suffering in this way for a year and a half, when one day I happened to pick up the paper and to see in advertisement of Dr. Williams' Pink Pills for Pale People. I made up my mind to try them. When I had taken one box I felt better and after I had taken the pills for about two months all the pain was gone. This was a year ago and the rheumatism has not troubled me since."

The above statement of Mrs. Knowles was sworn to at the reporter's request before Marshall H. Farrington, notary public, at Portland, and published in the Express, a reliable newspaper of that city.

Dr. Williams' Pink Pills for Pale People will not only cure cases similar to that of Mrs. Knowles but, continuing as they do, all the elements necessary to give new life and richness to the blood and restore shattered nerves, they have proved efficacious in a wide range of diseases. They are an unfailing specific for such diseases as locomotor ataxia, partial paralysis, St. Vitus' dance, sciatica, neuralgia, rheumatism, nervous headache, the after-effects of grip, of fevers and of acute dysentery, palpitation of the heart, pale and sallow complexions and all forms of weakness, either in male or female. Dr. Williams' Pink Pills for Pale People are sold by all dealers or will be sent post-paid on receipt of price, fifty cents a box; six boxes, two dollars and fifty cents, by addressing Dr. Williams Medical Co., Schenectady, N. Y. Be sure and get the genuine; substitutes never cured anybody.

THE SEASONS REVOLUTIONIZED MODERN MERCHANISING

WHILE the frost is falling and heavy wraps are grateful adjuncts to our comfort, enthusiastic shoppers will welcome the advent of New Foreign and Domestic Spring and Summer Fabrics.



TOMORROW Morning we will show the brightest array of fore-runners of the coming season's newest conceits in richest and daintiest colorings and most charming and refreshing variations from past season's favorites.

An Early Selection will enable you to secure the choicest pick of fabrics for the coming season at Special January Prices.

OVER 100 PIECES HIGH GRADE CORDED JAPANESE WASH SILKS.

This is the most gorgeous and magnificent importation of genuine Japanese Silks ever received and the beautiful combinations of rich colorings and delicate shades represent the highest standard of the textile printer's art. This shipment contains every conceivable style and color combination, including white and the new warp printed wash silks, and were imported to sell for 50c per yard. Special January price per yard..... 48c

NEW COTTON Torchon Laces.

Thousands of yards of these desirable laces at prices never before offered in Salt Lake. Widths from 1 to 5 inches. All new patterns, an assortment never before equalled in value and style. Per yard..... 4c

ADVANCE SHIPMENT OF ALL-WOOL FRENCH CHALLIES.

All the newest shades and patterns, stripes, dots, rings and figures in the best imported cloths, light and dark colors, per yard..... 45c

MILL-ENDS in EMBROIDERY STRIPS.

Monday morning the entire balance of a special shipment of manufacturers' mill ends, the entire clearance of Remnants from one of the largest factories in Switzerland will be placed on sale on our Bargain Counter. They run in strips from 2 1/2 to 6 yards, and will be sold by the strip only at EXTRA SPECIAL REMNANT PRICES.

First Showing of FOREIGN AND DOMESTIC WASH GOODS.

Our display of fine wash fabrics will be more beautiful and complete this year than ever before. The advance shipments are arriving daily, and we are already showing an elegant collection of Madras Cloths, Tissues, Dimities, Embroidered, Swisses, Grenadines and many other new creations for the Summer of 1902.

MADRAS CLOTHS. Elegant new creations for shirt waists, men's shirts, boys' waists, etc., absolutely fast color. These goods have been thoroughly scoured with soap and water before leaving the mill and cannot lose the richness of their colorings. Per yard, only..... 15c

IRISH DIMITIES. New 1902 dimities in every conceivable pattern and color combination, light, dark and medium shades, the most complete assortment ever shown. Per yard only..... 20c

MERCERIZED CHAMBRAYS. Rich lustrous fancy chambrays in plain colors and stripes will be highly popular wash fabrics this year. Get your pick early. Per yard only..... 25c

SILK NOVELTIES. High grade silk gingham, come in plain colors and spots, equal in appearance to pure silk fabrics, choicest of the new fabrics for summer wear. Per yard, only..... 50c

GRENADES. The very newest of the coming season's high class imported cotton fabrics. Every popular color combination and delicate printing is represented in this fabric and it need only be seen to fall captive to its beauty. Per yard, only..... 65c

NEW PERCALES—JUST RECEIVED.

75 pieces High Grade English percales in light and dark and medium colors, striped and figured designs, full yard wide that always sell at 15c per yard, January price, per yard..... 12 1/2

UNRIVALED JANUARY SALE OF DAINTY MUSLIN UNDERWEAR.

Three Most Remarkable Offers For This Week.

AT 25c EACH Chemise good muslin, neck and sleeves trimmed with cambric ruffle. Muslin drawers, with four inch cambric ruffle; or hemstitched hem and cluster of tucks. Corset covers, four styles. Fine cambric with cluster of tucks; French cut with hemstitched lawn ruffle; fine cambric yoke, neck and sleeves finished with val lace; and cambric corset cover short French waist finished with val lace edging and val lace shoulder strap. Short muslin underskirts, cluster of tucks and cambric ruffle.

AT 45c EACH Women's muslin gowns, with Hubbard yoke, lined back, cluster of tucks and insertion, hemstitched cambric ruffle on neck and sleeves. Fine muslin chemise, yoke insertion and cluster of hemstitched tucks or deep embroidered yoke. Women's drawers, a variety of styles in cambric or muslin, with Torchon lace ruffles, hemstitched ruffles and deep embroidered ruffles and hemstitched tucks.

AT 65c EACH Women's fine cambric umbrella drawers, with deep lace and insertion trimmed ruffles, also drawstrings elaborately trimmed with hemstitched tucks and fine embroidery. Good muslin gown, yoke of fine cluster of tucks, pretty insertion and ruffles. Chemise elaborately trimmed with deep embroidered ruffles and yokes of cluster of tucks and insertion. Women's fine cambric skirts with deep insertion trimmed umbrella ruffles.

AN IMPORTANT EVENT IN Ladies' Flannelette Wrappers.

Just received a belated shipment of bright, new, fresh wrappers, in all the most desirable colorings, which will be placed on sale Monday at quick clearance prices.

ALL SIZES, ALL COLORS, ALL STYLES, DIVIDED INTO 4 BIG LOTS.

Lot I, Choice for 69c.

This lot comprises all of our \$1.00, \$1.25 and \$1.35 Fleece Lined Wrappers, all good colors, washable braid on collar and cuffs, yokes and sleeves.

Lot II, Choice for 98c.

In this lot you will find Fleece Lined Wrappers, that always sold for \$1.40, \$1.50 and \$1.75, large variety of styles, braid and colored sateen ruffle trimmed.

Lot III, Choice for \$1.15.

Fleece lined and heavy cotton Elderdown Wrappers, regular price \$1.85 to \$2.25, some with fancy Van Dyke ruffles over shoulder with velvet ribbon trimming, large variety of other styles.

Lot IV, Choice for \$1.98.

Choice of French Flannel Effect Flannelette Wrappers and Heavy Cotton Elderdown, regular price, \$2.50 to \$3.50. Beautiful Persian patterns, fancy styles, some with washable velvet yoke.

MAIL ORDERS PROMPTLY FILLED.

HOSTETTER'S STOMACH BITTERS

What this wonderful medicine will do for you must be gathered from what it has done in the past. It has restored thousands of sickly people to good health during the past fifty years, and will not disappoint you now. It is a specific remedy for ailments of the stomach, liver and bowels, such as DYSPEPSIA, INDIGESTION, CONSTIPATION, BILIOUSNESS, DIZZINESS, OR SICK HEADACHE. We urge you to try it. The seal of our PRIVATE STAMP over the neck of the bottle.