

AHEAD IN MACHINERY

The Most Prominent Feature of the American Exhibit at Paris.

ELECTRICITY OUR STRONG POINT.

Edison Has the Largest Single Display in the Exposition.

SCENES IN A REMARKABLE BUILDING

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PARIS, May 26.—The machinery palace of the exposition is the largest building ever constructed under a single roof. A remarkable feature of the building is that it has no interior support except 20 great arches, hinged at the foundation plates and apex so as to provide for expansion and contraction under changes of temperature. The roof is glazed. The lower panels are decorated with heraldic designs. The ends of the building are filled with tinned glass. Light is abundant and the effect of the decoration is magnificent. The length of the building is nearly 1,600 feet, its width 370 feet and its height 170 feet. A gallery 30 feet from the floor extends the entire length on both sides. At the four corners are steam generators for driving the entire machinery. The power is communicated by shafting placed on four rows of trolleys riding parallel with the length of the building and placed in subways. The engines are now working and there is more power than is required.

SOME GROWTH. An idea of the colossal character of the exhibition may be gathered from the fact that the power available this year is four times as great as that furnished during the exhibition of 1878. The American machinery exhibit occupies one-third of the space in this building, and it is all respects but one more imposing than the exhibit at any previous international exhibition.

The exception in Germany machinery, in which it does not progress corresponding to that manifested in other lines. We are indeed at a double disadvantage in this, for besides exhibiting nothing notable, European nations have been successfully overtaking us in the production of our own machines. This is especially true of Great Britain, France, Germany, Austria and Switzerland. In this respect, as in others of equal importance, we have supplied Europe with ideas. In 1867 there was an exhibit of machine tools by Brown & Sharpe, of Providence. They were all sold. To-day tools made by the Brown & Sharpe patterns by Europeans are universal in the exhibition. When the internal Congress of Civil, Mechanical and Mining Engineers meets here next month it is apparent that the chief pleasure of the American delegation, numbering nearly 300, will be to point out the facilities which American mechanical ideas have been adapted by other countries.

USING AMERICAN IDEAS. These ideas are paramount. Within obvious limits they relate chiefly to steam engines and compressors, machine tools, machinery for forming sheet metal, and the use of metals into reams, for working on rock and stone by means of compressed air, for making wood screws, by rolling instead of forging, and for cutting the threads, and wood working machinery. A Baldwin gas engine, built by Otto Brothers, attracts attention by employing gas to run a dynamo for the purpose of lighting by means of incandescent lamps, the claim being that the light thus produced is more economical than gas itself.

"Printing House Square" in the American exhibit will be run with electric power supplied by Pickering for the special accommodation of the press, which are not in the exhibition. Several other exhibits of the kind are shown, but the most notable is the one by Hoe, which has a printing press, but the plant, when ready, will be considerable. The Campbell and the Golding Companies exhibit in this respect. Several typesetting machines are exhibited, including the MacMillan, the Thorpe and the Mengelbarger machines. This machine is furnished with a photograph, which dictates copy to the operator.

The only other country exhibiting novel improvements in printing machinery is Germany. It has a practical monopoly of writing machines, there being only one Russian and one Swiss. The machine of note of these countries is favorably with the American machine.

ELECTRICITY PROMINENT. This electricity constitutes an absorbing problem of mechanical invention and physical discovery is shown by the prominence its apparatus occupies. Throughout the exhibition hall in various other parts of the Exhibition there are 500 exhibits of this branch. The universality of the study devoted to it is shown in the range of the countries represented by the apparatus. These include France, Germany, Great Britain, America, Belgium, Switzerland, Algeria, Austria, Hungary, Chili, Denmark, Spain, Italy, Japan, Norway, Portugal, Russia and Finland. The application of electricity to machinery and to various processes is making steady, if not rapid, progress. The position of Alexander Graham Bell and his associates is unique, and while the great discovery by Prof. Edison Thomson, of the perfect fusion by means of electricity of metals that do not amalgamate in the ordinary way, is a third American to the list of electricians first in the world.

Prof. Thomson's discovery is expected to revolutionize processes and modify methods throughout the whole scope of metal working, from the fine art of the goldsmith to the colossal undertakings of the cannon maker. The Bell telephone is shown in the liberal art section, not in machinery hall, as the consent of the French government interests could not be procured for wires.

EDISON'S EXHIBIT. The Edison exhibit occupies one-half the entire American frontage, covering 9,000 square feet. It is the largest single exhibit in the Exposition. It is divided to illustrate in miniature most of the great practical results of Mr. Edison's inventions. For instance, the lighting of New York City is shown by subways visible in the flooring, with chains and apparatus indicating the distribution of lamps and the control of force. His entire category of inventions, numbering 300, is presented either completely or by intelligible suggestion. It comprises his contributions to telegraphy, electric lighting, systems of meters, dynamos, motors, transmission of power, railway electric motors, telephonic receivers and transmitters and galvanic and secondary batteries as used in the phonograph and milling machines, the electric pen, typewriter shafting, the rotary cylinder which materially improves the quality of engravings. The cylinders are on their way here, but the nature of the discovery is withheld to insure his patent.

THE DIFFERENCE. In the American development of electricity commerce predominates in the French, science, especially chemistry and applied mathematics. In the French exhibit, however, there are many practical machines in which it is employed, such as a rolling bridge for carrying and weighing a telegraphic machine, a simultaneous telegraph and telephone, a telephone and microphone, an autographic telegraph, electric trumpets, an electric organ and an electric piano, a machine for measuring the resistance of electricity, and an electric elevator. Among the most imposing but not less

FROM BARS OF IRON.

John Jarrett Describes Exactly How Tin Plates Are Made

BY BRITAIN'S PALM-OIL PROCESS.

Rolled From Solid Bars Down to an Exceeding Thinness, THEN PICKLED AND ROLLED IN OIL.

There is probably no American citizen better qualified both by study and experience to write intelligently and entertainingly about tin plate and its manufacture than Mr. John Jarrett, of this city. The newly appointed Consul of the United States to Birmingham, England. For the current number of the Bulletin, published in Philadelphia, under the auspices of the American Iron and Steel Association, Mr. Jarrett writes on "How Tin Plates Are Made in Great Britain." Beside congratulating Mr. Jarrett editorially upon his new appointment, the Bulletin generously publishes his editorially prepared his descriptive article, which is reproduced below. It will be considered of double interest in the Pittsburgh region in view of the great promises made for this locality in behalf of the revived and extended tin industry that is to spring from the Senate tariff bill, if adopted. Mr. Jarrett says:

DEAR SIR: In compliance with your request for a description of the manner in which tin plates are made in Great Britain I take pleasure in sending you the following information, however meagre it may be. Charcoal iron is no longer used in the manufacture of tin plates, and the quantity of puddled bars now used for this purpose is also very limited. The bars are heated and better qualities of plates is now made of open-hearth steel, and nearly all the cheaper grades are made of low-carbon Bessemer steel. We will, therefore, deal only with our subject from the bars of iron or steel (which in tin mills are generally called "tin bars") to the finished plates.

FROM AN IRON BAR. In the first place we have the bar, delivered from the bar mill, several feet long, about seven inches wide, and from one-half to five-eighths of an inch thick, rolled according to the size of the plates required so many yards per ton. The bar is taken and sheared into the required lengths, say about 15 inches, which would weigh about 19 pounds to the piece. This would be the length of a bar required to produce sheets 14 inches by 18 inches in size. The bar would eventually be rolled into 16 sheets of this size, 112 of such sheets forming a box, and weighing when tinned about 116 pounds.

THE PICKLING PROCESS. The plates are next sent to be pickled, that is immersed in heated dilute sulphuric acid. This process is now generally done by the aid of patent pickling machines, among which are Hutchings', Morris', Lewis & Hyde's and others. The plates are placed in a cradle or receptacle, which is lifted by hydraulic power, and dropped down into a tank containing the acid. The cradle is then given a revolving or other motion to make the liquid rub between the sheets. After being subjected to this action of the acid for some time the cradle is again lifted by the hydraulic power and dropped into another tank containing an ample supply of clean water only, the cradle revolving in the acid tank, so that the water runs between the sheets and wash away all trace of the acid. When taken out the plates are bright and clean. They are then rolled in closed iron annealing pans and subjected to a bright heat in an annealing furnace for from 24 to 36 hours. Mr. Jarrett says that the tin plate industry has now in operation a clever device for pickling tin plates, which I think surpasses any other method now in use.

THEY GO THROUGH GREASE. Now comes the last process. The sheets are iron or steel so far. They next reach the tin house, and are placed in a trough of clean water ready for the tinner, who takes them singly and dips them in a grease pot, containing oil, to soak. After being there a short time the tinner places the sheets in a large iron pot, containing molten tin, with a covering of clean oil. When the tinner has performed his part the plates are handed over to the "washman," whose pot contains more molten tin. After they have soaked a little while in it he raises them with tongs on to a "bob" as he requires them, brushes the surface of each side of the sheet, and after again dipping them into a pot containing molten tin, they are sent through rollers which work in a large vat of clean water. Here they are carefully inspected, and all good plates are classed as "perfects" and defective plates as "wasters."

LOCAL BRANCHES FORMED. Father Buckley Establishes the League of the Sacred Heart. Rev. Father Buckley, of the Order of Jesuit Priests, established a branch of the League of the Sacred Heart at St. Paul's Cathedral yesterday afternoon. Father Buckley came here from New York for this purpose and secured the services of 210 promoters, who will organize the branches. Each promoter will have charge of a band of 15 persons. The league is an association among the faithful of the church for the purpose of helping one another by prayer. At present there are over 16,000 members in the league. Father Buckley returned home to New York last evening.

SUNDAY OBSERVANCE. The Presbyterian General Assembly Takes the Subject Under Consideration. NEW YORK, May 26.—At a meeting held this afternoon at the Fourth Avenue Presbyterian Church under the auspices of the General Assembly, the question of Sabbath observance was discussed. The moderator of the General Assembly, Dr. Roberts, presided. Speeches were made by Mr. Van Rensselaer, of the Board of Sabbath Observance, Colonel E. F. Shepard and the Rev. Dr. Atwater, Secretary of the New York City Committee on Sunday Observance.

Monarchs in Disguise. BERLIN, May 26.—King Humbert and the Prince of Naples left Berlin at 9:30 A. M. to-day. Several princes assembled at the station to bid them farewell and a large crowd gave the departing guests an ovation. The King and Prince will travel incognito.

Serious Charges Against a Postmaster. NEWARK, N. J., May 26.—Adam L. Brown, the postmaster at Bloomfield, this county, has been suspended. It is reported that there is a shortage of \$1,300 in his account, and charges of neglect of duty are made against him.

Fell From a Wagon. Willie Oliver, of Greenfield avenue, Frankstown, had his head very badly hurt yesterday by falling from a wagon, the end gate of which opened, so that he fell striking the back of his head on the ground. Dr. Wishart, from Marion station, attended the child.

Property Damaged by Fire. NEW YORK, May 26.—A fire this morning at 81 John street, occupied by the Pittsburgh Tube Company and others, did \$10,000 damage to the stock and \$300 to the building.

THE BATS HE IS INNOCENT.

But the Jury Has Decided Otherwise to the Contrary.

NEW ORLEANS, May 26.—The jury in the case of Louis Clark and John Gibson, charged with murdering Hon. Patrick Mealey, on New Year's morning, 1888, this afternoon rendered a verdict of "guilty with special punishment." This case has occupied the attention of the court for several days and is the second trial Clark and Gibson had, with similar results. The verdict in the first case having been set aside by the Supreme Court on the ground that the testimony of a material witness for the defense had been improperly excluded.

OUR NEW CONSENT AT FRASER.

WASHINGTON, May 26.—The President yesterday appointed Roger C. Spooner, of Wisconsin, to be Consul of the United States at Prague. He is a brother of Senator Spooner.

WEAK STOMACH, NERVOUSNESS, PILLS LIKE MILK. FRASER'S STOMACH PILLS.

Ladies' Gold Watches. Elgin, Waltham and Springfield make. All the latest designs in plain, fancy chased or inlaid designs in gold and silver. Stock at \$25 to \$100. Call at E. P. Roberts & Sons', corner Fifth and Market st.

LACE CURTAINS.—Now the time to buy lace curtains, 300 pairs just opened, best values ever offered, at from \$1 to \$9 a pair. HUGGS & HACKE.

FRANZELS.—We have the largest and best selected stock of French, Scotch and American fancy linens, for table, house, waist, shirting, etc., ever shown in this city; prices from 40c to \$1 a yd. HUGGS & HACKE.

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J. H. JOHNSON'S gun store removed to 706 Smithfield street.

DIED. BISHOP.—On Sunday, May 26, 1888, at 1015 M. Tenth street, Bishop, at his residence, 370 Webster avenue, in the 84th year of his age. Notice of funeral hereafter.

BURCHARD.—At the parsonage, May 24, 1888, Rev. W. C. BURCHARD, pastor of the McClure Avenue Presbyterian Church, Allegheny City. Funeral at the church on MONDAY, May 27, at 4 P. M. Interment private.

CHAMBERS.—At the family residence, rear 207 Penn avenue, on Sunday, May 26, 1888, at 4 P. M. LOUIS CHAMBERS, aged 58 years 10 months. Funeral services on TUESDAY, 29th inst., at 2 P. M. Friends of the family are respectfully invited to attend.

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