tals 1 and 2 and 3 and 4 gummed together by the ex- given, which are from recent photographs. Around tremities of their anterior sides, while Fig. B shows us the Woman's and Horticultural Buildings large steam and philanthropy will be held at the World's Fair, to the petals 2 and 3 united in the same manner on the rollers have been at work packing down the permanent consider questions relating to the care of criminals, opposite side. A small, very light and thin steel crushed stone roadways and paths, and the landscape paupers, and unfortunates. The congress will begin spring, D, formed of two strips soldered together at the bottom, and pointing in opposite directions, is | large rookery is to be placed in the central dome of the fixed to the two exterior petals, 1 and 4, of the flower Horticultural Building. The design for the Woman's and is concealed by a band of paper of the same color gummed above. It is this spring that, when it is capable of expanding freely, opens the flower and gives it its voluminous aspect.

Quite a large number of these flowers (a hundred or more), united and held together by means of a thread pavilion contains the main entrance to the building, or a rubber band (Fig. 2, C) makes a package small enough to allow the operator to conceal it in the palm 240 feet, to the left of which is a room 80 by 200 feet, in of his hand, only the back of which he allows the spec- which there will be a retrospective exhibit, while a tators to see while he is forming the paper cone. La similar space at the other end of the building will be Nature.

## THE WORLD'S COLUMBIAN EXPOSITION.

As the time approaches for the dedicatory ceremonies next month of the World's Fair, the full programme of which was printed in last week's SCIEN- high. TIFIC AMERICAN, increasing public interest in the great enterprise is being manifested in many direc- 500 feet, and to the rear, on each side, will be an Liverpool and Manchester road, the first railroad, in tions. The financial problems affecting the exposition annex, reached by a covered passage, each of these have now been definitely settled, and it is assured that additional buildings covering a ground space of 120 ample means have been provided to make the fair by 200 feet. the great success which was promised when it was decided to hold it in Chicago. The long struggle to obtain an appropriation of five million dollars from Congress at the last session had, it would seem, a most City. Like most of the other buildings, the style of sented by thirty-four expert wood carvers from Vienna, happy ending, as Congress substituted for the proposed loan of \$5,000,000 an appropriation of \$2,500,000 in souvenir half dollars. The demand for these coins ment. It is one of the handsomest of the grand cenjustifies the expectation that the sale of them will tral group, and will cost \$650,000. There will be four shed, 100 × 672. Provision is made for loading and realize at least \$4,000,000, and none of it will have to entrances to the building, the main one on the south. be paid back. Large sums will be obtained by the Its staff covering will cause it to resemble granite in sale of privileges. At the Centennial many fortunes color. A statue of Franklin will rise conspicuously Montana. were made by those who dispensed refreshments and provided various auxiliary entertainments. The Chicago directory have knocked every concession down to the highest bidder, and have in each case exacted heavy bonds. It is even reported that the man who secured the exclusive right to sell peanuts, for example, paid the amazing sum of \$120,000. All these sources of revenue have been looked after with a low parapet between large vases bordering the 40 feet below the surface of the snow there was no solid a good deal of business shrewdness.

month presented an especially animated spectacle, as end pavilions, forming two interior courts each 88 by kept in its place by the snow itself. He accordingly the work has been pushed with remarkable vigor in 270 feet, the courts being beautifully decorated in formed an association, to which Prince Roland Bonaall departments to have everything in as complete a color and planted with ornamental shrubs and flowers. parte, M. Leon Say, M. Raphael Bischoffsheim, Count state of forwardness as possible for the dedicatory The center pavilion will be roofed by a crystal dome, de Greffulhe and Baron de Rothschild were liberal ceremonies, the force of mechanics and laborers hav-187 feet in diameter and 113 feet high, under which subscribers, and the funds thus obtained were spent in ing been increased to 10,000. The building of roads will be exhibited tall palms, bamboos, and tree ferns. the construction of an observatory which, after having and paths has been rapidly approaching completion, The exhibits will include all the varieties of flowers, been put up in the grounds of the Meudon establishwalks and flower beds being laid out on the terraces plants, vines, seeds, horticultural implements, etc., ment, has been taken to pieces again and sent off to along the grand basin, and the completion of the those requiring sunshine and light being placed where Chamounix, from which place it will be taken up to Manufactures Building, in which particular interest is the roof is entirely of glass, while provision will be the summit of the mountain and put together under centered, is in sight. There is no doubt of its being in made for furnishing heat where required. The ex-the supervision of M. Capus, the well known explorer, readiness for the ceremonies. The steelwork of the terior of the building will be in staff or stucco. The who accompanied M. Bonvalot on his journey through roof is completed, and the carpenters and staffmakers appropriation for this building is \$400,000. are as close upon the ironworkers as possible. The artists who will decorate the interior of the domes Mr. Henry Ives Cobb, of Chicago. It has an extreme being divided into two compartments or stories, surover the entrances are now busy at their portion of |length of 1,100 feet, and its width is 200 feet. The mounted by a square platform, with an iron balustrade the task. Work on the main building of Machinery Hall is being pushed. The placing of the ornamental the shape of the site. In the central portion will be ous meteorological instruments. There are several staffwork has also begun, and the foundations for the the general fisheries exhibit. In one of the polygonal rooms in each compartment or story, for the use, upon boilers and engines in the power house are being buildings will be the angling exhibit, and in the other the one side, of the director and his staff, and, upon placed.

tically completed, with the exception of the coloring ance with the classic style of all the other buildings. and placing of free groups of statuary. Artist Dodge is at work on the statues for the decoration of the outer dome. The figures in this work will be thirty feet high. On each side of the mammoth memorial fountain in front of the Administration Building will be a huge Treasury Department has agreed to have some one ap- vided for by means of tubes, while the windows of the lights.

will begin shortly. The roof of this annex constitutes concession was never previously secured for an expo- the atmosphere is sufficiently clear. All the timber

work around these two buildings is nearly finished. A Boston, who won a \$1,000 prize offered for the best \$200,000. The architecture is classic, with end and center pavilions, connected by an arcade. The center from which the visitor enters the main gallery, 60 by etc. The main portion of the building is three stories

The Palace of Fine Arts occupies a space of 320 by

350 feet, or more than five and one-half acres. It was agement. designed by Messrs. Van Brunt & Howe, of Kansas architecture is Italian Renaissance. It is 60 feet high and ornamented with designs suggestive of the departbefore the south entrance

The Horticultural Building, facing the lagoon on the land side, is 1,000 feet long and with an extreme width of 286 feet. It was designed by W. L. B. Jenney,

The Fish and Fisheries Building was designed by The exterior of the Administration Building is prac- Romanesque, and will contrast agreeably in appear-

## World's Fair Notes.

An international congress of charities, correction June 12, and last one week.

The New York State Board of Charities is preparing an industrial exhibit of the products of the charitable, Building was made by Miss Sophia G. Hayden, of corrective, reformatory, and eleemosynary institutions under its supervision. The exhibit will contain phoplan. The structure measures 200 by 400 feet, and cost tographs, models, illustrations, of the various methods of instruction, statistics, and a comparison showing the progress of work for the past twenty-five years.

> The German exhibit will contain an architectural display including drawings illustrating 200 or more of the most notable buildings in the empire.

The Baltimore and Ohio Railway Company will make a historical exhibit which will be of absorbing devoted to reforms and charities. Portions of the interest to all railroad men. Major J. W. Pangborn building are also allotted for a model kindergarten, a has charge of its preparation. The Baltimore and model hospital, a library and record room, a bureau of Ohio claims to be the oldest railroad in the world, its information, club rooms, committee rooms, parlors, two or three predecessors having been mere tramways for transporting coal, stone or ore. The actual construction of the road began on July 4, 1828, and its first section was in operation six months before the the present sense of the word, in Europe. The Baltimore and Ohio claims also to be the only one of the pioneer roads which has retained its original name and The Electricity Building covers a space of 700 by has remained under a continuous succession of man-

> The Austrian wood-carving industry will be reprewho will exhibit their work in its various branches.

> Plans for the passenger station at Jackson Park call for a main building,  $150 \times 300$ , with an annexed train unloading thirty-six trains at one time.

> A gold brick worth \$230,000 will be exhibited by

## The Mont Blane Observatory.

It may be remembered that M. Janssen, the director of the Meudon Observatory and member of the French of Chicago, and in front will be a flower terrace for Institute, who last year made the ascent of Mont Blanc, outside exhibits, including tanks for nympheas and the in order to examine the practicability of the scheme Victoria regia, while the front of the terrace will have for establishing an observatory there, finding that at water, with a boat landing at the center. The build- bed of rock for the foundations of a building, con-The vast grounds and buildings have for the pasting will have a central pavilion and two connected ceived the idea of constructing one which could be Central Asia and over the Pamir into India. The new observatory is of timber and is about 25 feet in height, building is subdivided into three parts, to conform to and a wooden scaffolding for the reception of the varithe aquaria. The exterior of the building is Spanish-, the other, of tourists and their guides. These rooms will be provided with barrack furniture and with small stoves for heating and cooking purposes, the fuel used at first being anthracite. The two stories communicate with each other by means of a spiral staircase, while there is a straight ladder with a trap door, giving In the interest of foreign exhibitors the government access to the room for the guides. Ventilation is proelectrical fountain, throwing a stream 150 feet high, pointed at every port of entry to look after exhibits upper story, with double framework and double panes brilliantly illuminated by variously colored electric sent to Chicago. It will be the duty of these agents to of glass, afford views in various directions, among forward without delay or appraisement exhibits regu- others toward Chamounix, with which it is intended to Active work on the Transportation Building's annex larly consigned to transportation companies. This communicate by means of semaphorical signals when

of the fish will be placed in them this month.

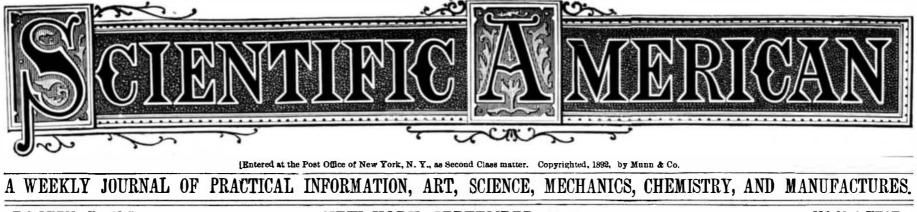
The dedication exercises are to be held in the Manufactures Building, where accommodations for seating there will be no customs duty or charges exacted from 80.000 people will be provided. The programme pro- exhibitors, but it has always been customary for vides for the presence on this occasion of President charges to be made by custom house brokers for blanks Washington, the Chicago board of forty-five directors, A separate building for the shoe and leather indusscores of Congressmen and Senators.

ings of the fair is accurately shown in the pictures tributed to the fund.

a terminal for the elevated railroad. Building work sition in this country. The plan will greatly facilitate has a thick coat of fireproof paint, and each piece of has been begun on two annexes for the Fine Arts the shipment of exhibits, for the agent will be charged wood is numbered so as to facilitate the observatory's Building. Contracts are let for the stock pavilion and with the further duty of looking out for all goods not being easily put together-a work which, it is hoped, excavations for the foundations are begun. Work will regularly consigned. In all cases where exhibits are will be completed by the end of September. It resoon begin on the Photographic Building. The big not properly consigned, and on which freight charges mains, of course, to be seen whether the building will, plate glass tanks in the aquaria of the Fisheries Build- have not been prepaid, the agent will care for them as M. Janssen anticipates, remain in its place by the siming are nearly completed, and it is expected that some without cost to the exhibitor or the exposition com- ple process of letting the planks which are to form the pany until arrangements can be made for forwarding outer walls down some distance into the hardened them to Chicago. The Treasury regulations provide; snow.

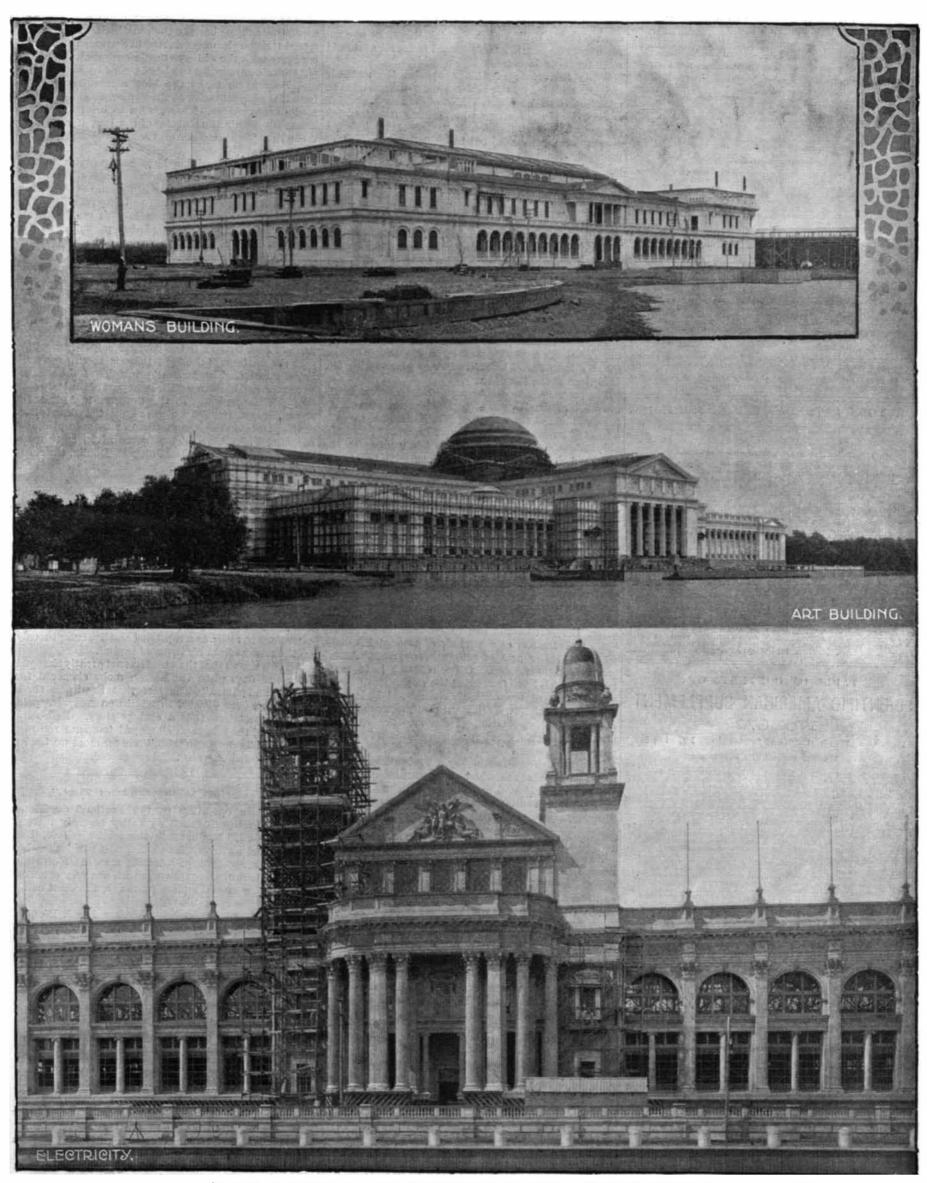
Harrison, Vice-President Morton, the members of the and clerical work at the port of entry. This charge black wolf is not by any means extinct; that they ex-Cabinet, the judges of the United States Supreme the railroads in whose care exhibits have been con-ist in large numbers in Alaska, and that other animals Court, the governors of the forty-eight States and Ter- signed will assume, and the exhibitor will thus be extinct, or nearly so, in the States and other Territories ritories, the ministers of foreign nations resident at saved a cost ranging from \$3 to \$10 on every shipment. | are in good preservation in Alaska." Among these he the one hundred and six national commissioners, and try exhibit is now an assured fact, as the required the red fox, and the bald-faced bear, so called because \$100,000 has all been raised. Leather dealers and his face is the only bare portion. He states that a The state of forwardness of some of the great build- manufacturers in all parts of the country have con- black wolf was killed about a year ago near Douglas

REFERRING to our recent article on the American black wolf. Mr. F. H. Peorman writes that "the mentions the black fox, the gray or silver-tipped fox, City.



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WORLD'S COLUMBIAN EXPOSITION-PRESENT APPEARANCE OF BUILDINGS.-[See page 180.]