

MANUFACTURE OF CLOTHING.—It is estimated that 50,000 men and women are employed in Philadelphia in the manufacture of clothing, and 20,000,000 suits are made there every year. Cutting machines are gradually finding their way into all of the large manufacturing establishments of the city. The machines have a capability of cutting nearly eighteen hundred garments in a day of twelve hours, or about equal to the combined results of the labor of eight men. Buttonholes also can be worked by machinery at the rate of one hundred and eighty per hour, while by hand it would take the same period to complete three holes. By the cutting machines folds of cloth forty-ply thickness can be easily cut through. An instance of the value of machinery in expediting manufacture is afforded in the fact that the establishment where cutting and buttonhole machines are used turns out one hundred suits ready for wear inside of twelve hours.—*Scientific American.*

The Elevated Railway Extension.—Details of Construction.

The constructors of the iron work of the Second Avenue Metropolitan Elevated Road and the extension of the west side line to Harlem, Messrs. Clarke, Reeves & Co., furnish the following figures, supplementing those given in our description of that work last week. It is proper to add that we are indebted to the same gentlemen for the photograph from which the large engraving of the 110th street curve was made.

The new structure on the east side has a length of seven and thirty-six hundredths miles, and required 28,000 tons of iron. The west side extension, from 53d street to Harlem river, four miles in length, required 16,200 tons of iron. In the 44,200 tons of iron used in building the two sections of the road, there are 971 miles of angles, 314 miles of flat bars, 20 miles of Phoenix columns, 2 acres of plates, 5 1/2 million rivets, and 21 million punched holes. The preparatory work was done at the Phoenixville rolling mills and shops, the average day's work being 3 miles of angles and 1 1/2 miles of flat bars, at the mills; and 66,600 holes punched and 17,430 rivets driven, at the shops.

The high viaduct shown in our engravings is 4,000 feet long, with an average height of 45 feet. At 8th avenue and 110th street the road is 59 feet above the pavement, and the foundation extends 36 feet below the pavement, making the total height of the structure 95 feet. The foundations are from 30 to 40 feet deep, and cost \$200,000 a mile. Each pair of high piers contains as many bricks as a house 20 by 50 feet and three stories high.

If the grades had followed the streets a maximum grade of 170 feet to the mile would have been required. Now the maximum grade is 75 feet. The foundations and general design and arrangement of the iron work were planned by John Baird, General Manager, and W. F. Shunk, Chief Engineer of the Metropolitan Elevated Railway company. The special design and construction of the iron work was by Clarke, Reeves & Co., of Phoenixville, Pa.—*J. B.*

The Egyptian Obelisk for New York.

Lieutenant Commander Goringe, U. S. N., and his assistant, Lieutenant Schroeder, have sailed for Liverpool, on their way to Egypt, to Superintend the removal and shipment of the Cleopatra Needle presented by the late Khedive to this city. The machinery to be used in handling the monolith has been prepared at the Roebling Works, Trenton, under the direction of Mr. Goringe. The *World* says that this machinery will aggregate about eighty tons in weight. It consists of two towers, each 26 feet in height (which are to be shipped in sections and put together after their arrival in Alexandria), two steel castings, each weighing over six tons, and a cradle 60 feet in length. The towers correspond to the sides of a gun carriage, and the castings to the trunnions on a gun. Like the machinery for handling the monster gun of the colossal Italian ironclad Duilio, this machinery for moving the Alexandria obelisk will command the critical attention of machinists and engineers; and it is satisfactory to know that the work of transferring to the New World this great Egyptian monument will be carried out entirely under American auspices.

The method of embarking the obelisk is described as follows: A steam

collier having a water ballast compartment will be secured alongside of the pier, and the necessary preparations made for heaving her down to careening lighters placed alongside on the side opposite to the pier. The water ballast compartment will be filled. A port having been opened to admit the obelisk into the fore-hold, it will be launched in. The listing of the steamer from taking its weight will be overcome by heaving down on the careening lighters, and the sinking due to both operations will be counteracted by pumping out the water ballast compartment, thus removing a weight of water corresponding to that of the obelisk. Tidal and wind-drift differences of level will be overcome by means of a float secured at the shore end after the fashion of a ferry slip.—*J. B.*

Will Brayton's Fearful Adventure.

St. Louis, October 28.—Advice from St. Charles; state that will Brayton, who went up in his balloon on Saturday, came back to town to-day about 5 o'clock. He landed about eight miles north of Grafton, Ill., after having been in the air about an hour. The balloon travelled at a fearful rate, having gone about sixty miles in that time. It first went toward the Mississippi and then followed that river up for some distance. The current of air then changed and brought it back toward Grafton, where Brayton effected a landing. He suffered intensely from the cold, being clothed only in thin tights. He found himself becoming numb and had to tie himself in the rings. Brayton says he was so numb when the balloon came down that, had he not been assisted by some men who were near, he would have been dragged to death. He says it was the most fearful ride he ever took in the air.

How He Was Cured of Swearing.

John came in and inquired whether dinner was ready, and was told it was not. "Well, why in the devil isn't it?" "Because," she coolly replied, "the wood was so wet that the fire wouldn't burn." "Why, Mary, what is the matter with you? Are you crazy or have you been drinking?" "Neither," she said, and quietly proceeded to put on the dinner. The beef didn't melt like butter between the teeth—it rather resisted all attempts at mastication, like so much india-rubber, and finally John blurted out: "What makes this—beef so infernal tough?" Mary looked up archly and replied: "Well, John, I suppose you went down to the butcher's and without knowing the difference, picked out a piece of some—old stag that hadn't been fed for a month." John jumped up, looked at his wife in dismay, and wanted to know what such language from her lips meant. "It means just this, John; you are the head of the family, and just as long as you think it manly to swear in my presence I intend to do the same! If you don't like to hear it you know how to prevent it." The cure was radical, and to this date Mary has never been compelled to administer another dose of Dr. N.—*s prescription.*

FRENCH RAILWAY TRAVELING.—The distance from Paris to Marseilles is 600 miles, and by a recent arrangement a train of the Paris, Lyons, and Mediterranean Railroad makes this long journey in fifteen hours, leaving the capital at 8 a. m., and reaching the shores of the Mediterranean at 11 p. m., an average continuous speed of forty miles an hour.

THE OLEANDER.—This beautiful plant, when under proper culture, is truly a gem among flowers. This is a good time for making cuttings of it. The best way for rooting them is in a bottle of rain water set in the window. The cuttings should be no deeper in the water than half way up to the second joint, and when the rootlets get to be half an inch long, carefully pot in rich, sandy loam. After the plant blooms, cut back to within a foot or fifteen inches of the ground, when three branches will come out; let them grow until it again blossoms, after which cut them all back about six inches from the main stalk, and every time it blooms repeat cutting back, and in few years a very beautiful plant will be the result; in fact, with proper care, it will grow more beautiful, with age.

45 Years Before the Public. THE GENUINE DR. C. McLANE'S CELEBRATED LIVER PILLS,

FOR THE CURE OF Hepatitis, or Liver Complaint, DYSPEPSIA AND BILIOUS HEADACHE. Symptoms of a Diseased Liver. PAIN in the right side, under the edge of the ribs, increases on pressure; sometimes the pain is in the left side; the patient is rarely able to lie on the left side; sometimes the pain is felt under the shoulder blade, and it frequently extends to the top of the shoulder, and is sometimes mistaken for rheumatism in the arm. The stomach is affected with loss of appetite and sickness; the bowels in general are constive, sometimes alternative with lax; the head is troubled with pain, accompanied with a dull, heavy sensation in the back part. There is generally a considerable loss of memory, accompanied with a painful sensation of having left undone something which ought to have been done. A slight, dry cough is sometimes attendant. The patient complains of weariness and debility; he is easily startled, his feet are cold or burning, and he complains of a prickly sensation of the skin; his spirits are low; and although he is satisfied that exercise would be beneficial to him, yet he can scarcely summon up fortitude enough to try it. In fact, he distrusts every remedy. Several of the above symptoms attend the disease, but cases have occurred where few of them existed, yet examination of the body, after death, has shown the LIVER to have been extensively deranged.

AGUE AND FEVER. DR. C. McLANE'S LIVER PILLS, IN CASES OF AGUE AND FEVER, when taken with Quinine, are productive of the most happy results. No better cathartic can be used; preparatory to, or after taking Quinine. We would advise all who are afflicted with this disease to give them a FAIR TRIAL. For all bilious derangements, and as a simple purgative, they are unequalled.

BEWARE OF IMITATIONS. The genuine are never sugar coated. Every box has a red wax seal on the lid, with the impression DR. McLANE'S LIVER PILLS. The genuine McLANE'S LIVER PILLS bear the signatures of C. McLANE and FLEMING BROS. on the wrappers. Insist upon having the genuine DR. C. McLANE'S LIVER PILLS, prepared by Fleming Bros., of Pittsburgh, Pa., the market being full of imitations of the name *McLane*, spelled differently but same pronunciation.



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Manufacturers of Portable and Stationary Engines and Boilers, Saw Mills, Corn Mills, Sugar Mills, Hangers and Pulleys, Turbine Water Wheels, Tobacco Factory Machinery, Wrought Iron Work, Brass and Iron Castings, Machinery of Every Description. **Ginning and Threshing Machines A SPECIALTY. REPAIRING PROMPTLY & CAREFULLY DONE. Talbot's Patent Spark Arrester, The Invention of the Age.** Talbot's new Patent Spark-Arrester is really the one by perfect and reliable one, and is superioring all others in use. The great efficiency of this Arrester is attracting universal attention, and is being endorsed by the best mechanical engineers and insurance companies. Its prominent features are:— It does not destroy the draft. It does not interfere with cleaning the tubes. It will not choke up, and requires no cleaning. It requires no direct dampers to be opened when raising steam dampers being objectionable, as they may be left open and allow sparks to escape. It requires no water to extinguish sparks, which, by condensation, destroys the draft. Besides, when water is used, if neglected, the efficiency is destroyed by evaporation of the water, and the boiler kept in a filthy condition. It is simple and durable and can be relied upon. It can be attached to any boiler. No planter should be without one of them. Insurance companies will insure gins and barn where they are used. Talbot Engines and Spark-Arresters are used at the same rates as charged for water or horse-power. Send for illustrated circulars and price list. Branch House, Charlotte, N. C.

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YELLOW FEVER—BLACK VOMIT. It is too soon to forget the ravages of this terrible disease, which will no doubt return in a more malignant and virulent form in the fall. MERRELL'S HEPATICA, a remedy discovered in Southern Africa and used by their warriors, results in South America where the most aggravated cases of fever are found, causes from one to two ounces of bile to be thrown out of the system, the blood each time it passes through the liver, as long as an excess of bile exists. Its wonderful action on the liver and stomach, the HEPATICA, not only prevents to a certainty any kind of Fever and Black Vomit, but also cures the following diseases:—Diarrhea, Dyspepsia and all Malarial diseases. No one need fear Yellow Fever who will expel the Malarial Poisons and excess of bile from the system by using MERRELL'S HEPATICA, which is sold by all Druggists in 25 cent and \$1.00 bottles, or will be sent by express by the Profructo Chemical Co., Philadelphia, Pa.

Dr. Pemberton's Stillingia or Queen's Delight. The reports of wonderful cures of Rheumatism, sciatica, neuralgia, Syphilis, Cancer, Ulcers and Sores, that come from all parts of the country, and are only remarkable, but so unaccountable as to be doubted was it not for the abundance of proof.

Remarkable Cure of Scrofula, &c. CASE OF COL. J. C. BRANSON. For sixteen years I have been a great sufferer from Scrofula in its most distressing forms. I have been confined to my room and bed for fifteen years, and in my numerous consultations with the most eminent physicians consulted, without any decided benefit. My general health, distressed, corresponding, I was advised by Dr. Ayer, of Lowell, Mass., to commence the use of your Compound Extract Stillingia. Language is insufficient to describe the relief I obtained from the use of the Stillingia, and my excess of bile from the time I commenced its use, until the first bottle had been used. I abandoned all other remedies and commenced the use of your Compound Extract Stillingia, and after taking eight more bottles, I can say truly, "I am cured of all my ailments, with nothing to obstruct the active pursuit of my profession." For the truth of the above statement, I refer to any gentleman in Bartow County, Ga., and to the members of the bar of Cherokee Circuit, who are acquainted with me. I shall ever remain, with the deepest gratitude, your obedient servant, J. C. BRANSON, AGY at Law.

A MIRACLE. WEST POINT, GA., Sept. 16, 1870. My daughter, my daughter, was taken on the 25th day of June, 1870, with what was supposed to be acute rheumatism, and was treated for the same with no success. In March, following, she began to work out of the right arm, and continued to swell till all the bone from the elbow to the shoulder joint came out. My daughter's name was not the right leg and leg. The case was then pronounced one of White Swell. After having been confined about six weeks to her bed, the case considered hopeless I was induced to try Dr. Pemberton's Compound Extract of Stillingia, and was so cured within eight months. I have continued the use of it until the present. My daughter has commenced to get about six years before she sat up or turned over without help. She now sits up all day, and sews most of her time—has been across the country, and her general health is now good, and I believe she will, as her limbs gain strength, walk well. I attribute her recovery to the blessing of God, and the use of your invaluable medicine. With gratitude, I am, yours truly, W. B. BLANTON.

WEST POINT, GA., Sept. 16, 1870. The above certificate of Mr. W. B. Blanton we know and certify to be true. The thing is so hundred of the most respected citizens will certify to it. As much reference can be given as may be required. CRAWFORD & WALKER, Druggists, HON. H. B. WILLIAMS. DR. PEMBERTON'S STILLINGIA is prepared by A. F. MERRELL & CO., PHILA., PA. Sold by all Druggists in \$1.00 bottles, or sent by express. Agents wanted to canvass everywhere. Send for Book—"Cure of Sores"—free of cost. Medicines sent to poor people, payable in installments.

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