Science and Art.

The Art of Dyeing .- No. 34.

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DYEING FEATHERS-In our last article the method of dyeing feathers black was described, and although it was not intended originally to say any more respecting them, another article on the subject will be found useful to many as such information is difficult to obtain.

The feathers of birds colored with the richest hues, are one of the most beautiful ornaments in animated nature. Some savage nations have exhibited great skill in blending the beautiful feathers of birds into various articles of dress, but the ancient Mexicans carried the arranging of colored feathers to such a degree of perfection as to use them the same as we do Tetters. Feathers are used in dress in all countries, and it will have been observed that they become fashionable ornaments about every ten years.

All feathers in their natural state are somewhat greasy, and resist efforts to color them in that condition. This grease must first be removed by steeping them for about fifteen minutes in very strong warm soap suds, after which they are washed, and are fit to be dyed. Being of an animal substance, their nature is akin to that of wool and silk. The same coloring matters and processes are therefore employed to dye them as for silk dyeing, only they require a little higher temperature of liquor, and more time in it. They are colored by themselves in small neat copper kettles, and carefully handled. By using the same substances, therefore, and pursuing the same methods as those described in the foregoing articles for dyeing silk, the same kinds of colors will be produced on feathers. The strength of the mordants and the dye stuffs must be proprotioned to the weight of feathers. Blue is colored with the sulphate of indigo; yellow with turmeric made slightly sour with vitriol, and red with cochineal. Logwood, muriate of tin, and a little tartar will color them purple, and a mixture of the sulphate of indigo and turmeric will dye them green. Feathers for ladies' hats, however, should never be colored with turmeric, because sunlight soon dissipates it; fustic therefore should be used in place of the turmeric. Orange can be dyed with annato. They can be dyed a most beautiful gold color by giving them a light dip in annato, then dyeing them a full yellow on the top with a liquor of quercitron bark and the muriate of tin at a scalding heat. A rich maroon can be dyed by steeping the feathers for an hour in a strong hot liquor of peachwood, and a very little alum and logwood.

If feathers are carefully handled they can be

It will have been noticed that some artificial

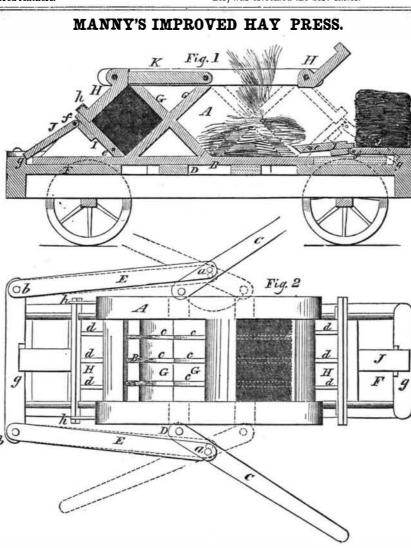
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side of the two followers, and as the doors, H tion upon THOUSANDS OF OTHER SUBJECTS. dyed.) these fibers are drawn a number of times in fig. 2. REPORTS OF U.S. PATENTS granted are also pubbetween the thumb and the edge of an ivory I, are inclined to correspond inversely with the To each end of the box or case, A, and at followers, it follows that the hay will be comknife, like that used by book folders, and from its upper part there is attached a door, H, this action become beautifully curled. This pressed in the form of a square bale. When which is so arranged as to be allowed to swing the hay is compressed the doors, H I, are opened up and down, the upper cross pieces of the operation must be performed delicately, and continued until the feather is dry. To facil- doors having their ends fitted in the top side and the bale withdrawn. The slots, c and d, turers, Agriculturists, and People in ever itate the operation, it is generally carried on pieces of the box or case, so as to turn therein. afford facilities for hooping the bale. While value in their respective callings before a fire. The curls thus produced will not The doors, H, have slots or recesses, d, cut the hay at one end of the box or case is being compressed, or while the bale is being hooped come out again until the feather becomes wet. through them. The ends of the sides of the box or case, A, or removed, hay is placed in at the opposite A feather may be dyed in varigated colors by end to be compressed at the return movement suspending it by a cord and immersing one are not vertical but inclined, so that when the ENGRAVINGS. end in the dye liquor, then the other in a difdoors, H H, are down or closed, they also will of the followers. TERMS! TERMS!! TERMS!!! ferent liquor. Thus, to color one part of a be inclined at angle of 45 deg., and correspond-By this press, a bundle of hay is pressed at One Copy for One Year, 82 feather yellow and the other green, suspend or ing with the inclination of the followers, G G. each movement of the followers, and conse-One Copy for Six Months, -Five Copies for Six Months, 81 hold the feather in a turmeric or fustic liquor. quently no time is lost in running back the The doors, H H, when closed cover only about 84 88 815 Ten Copies for Six Months. then take it out and wash it, and add a little one half the ends of the box or case, A, (the followers and hooping the bale, as this is done Ten Copies for Twelve Months, upper parts,) and there are consequently other sulphate of indigo to the same liquor, and hold while the box or chest is being filled for the Fifteen Copies for Twelve Months, -822 doors, I I, one at each end of the box or case, succeeding bale. By having the followers and Twenty Copies for Twelve Months, that part of it to be dyed green (excluding the 828 part to be kept vellow) in it for ten minutes. which are secured to it by pivots, e, which pass box or chest so arranged as to press at each when it will be colored green. In this way, through the sides of the box or case and into movement of the followers, the levers, C, are by carefully handling in different dye liquors, the sides of the doors. The doors, I I, when allowed to have a short purchase, as the folpaid) to MUNN & CO., one feather may be dyed so as to have part a raised or closed are also inclined but in a relowers are not required to be moved so far to

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purple, another part yellow, another part blue, another green, and another red. This art is a very interesting one to practice. By a little took place at Glen Cove on the 3rd inst. The ingenuity and taste, many young ladies might winner was a small sloop, 16 tuns burden, introduce some new and beautiful articles of named the Katy-did. The Widgeon, a new domestic manufacture composed in part of col- yacht by George Steers, though not the winored feathers.

Regatta. The Regatta of the New York Yacht Club ner, was esteemed the best sailer.



17th of April last.

the press, the plane of section being through the center, and figure 2 is a top view of the press. Similar letters indicate like parts.

A represents a rectangular box or case having a sliding bottom, B, to each side of which, at about its center, there is attached by a pivot a lever, C. The levers are attached to the ends of a cross piece, D, which is secured to

The annexed figures represent an improved | verse position to the doors, H H. The upper Hay Press, for which a patent was granted to ends of the doors, I, rest or bear against the Pells Manny, of Waddam's Grove, Ill., on the lower ends of the doors, H, and the doors, I,

are secured in a closed state by bars, J, one Fig. 1 is a vertical longitudinal section of end of which is secured by pivots, f, to the upper ends of the doors, I, and the opposite ends fit in notches or recesses, g, in the ends of the base or platform, F. The upper doors, H H, are secured in a closed state by hooks, h, which catch over the lower cross-piece of the doors. To the upper part of the box or case, A, and at about its center there is attached a lid. K.

The ELEVENTH VOLUME of the SCIENTIFIC dyed more easily than silk. Our farmer's the under side of the bottom, B. The fulcra of Suppose the operation of pressing to be now daughters, by following the above directions, the levers, C, are at the ends of levers or arms, first commenced. The doors, H I, at each end and using the receipts presented in preceding E E, shown at a, fig, 2, and the levers or arms, of the box or case, A, are closed and the hay articles, may dye white feathers any color they E E, are secured by pivots, b, at one end of the to be pressed is placed in the box or case, A, at choose. base or platform, F, on which the box or case, one side of the lid, K, and the lid is then closed A, is secured. To the upper surface of the over the hay. Power is then applied in any is calculated to advance. Its general contents embrace notices of the LATEST ostrich plumes have exceedingly long and delicenter of the sliding bottom, B, there are seproper manner to the levers' C C, and the slidcate fibers. These are not natural, but made by cured two followers, G G, which are so inclined ing bottom, B, is moved, and with it the foltying a number of fibers together. This work lowers, G G, and the hay is compressed in the as to cross or intersect each other at right anmust be done with great care, so as to have the form of a square bale between the doors, H I, gles, fig. 1. These followers correspond in width knots very small. These fibers are gracefully to the interior of the box or case, A, as shown at one end of the box or case, and the followcurled and very showy; the curling is also ers, G G, it being understood that the upper in fig. 2. The upper parts of the followers done by art, and in a most simple manner. part of one follower, and the lower part of the above the point of intersection have longitudi-Before the feathers are quite dry (after being nal slots or recesses, c, cut in them, as shown other, form the face or pressing surface at each

receive the same amount of hay, consequently a proportionate amount of power is gained by having the followers and doors in inclined positions, as shown, the hay is compressed towards the center of the bale, and the pressure which in the mass of presses is exerted against the sides of the box or case, is in a greatmeasure avoided.

More information respecting this convenient press for hay, cotton, &c., may be obtained by letter addressed to the patentee at Waddam's Grove.

Death of an American Engineer in Europe.

Major T. S. Brown died at Naples on the 30th of June last. He was at one time chief engineer of the New York and Erie Railroad. He was selected by the Emperor Nicholas to fill the place made vacant by the death of Col. Whistler. He lost his health in Russia, and while seeking relief in a more genial clime, he departed this life.

Literary Notices.

THE NATIONAL MAGAZINZ.—This high-toned moral magazine for August, contains a wood cut and sketch of the lamened Rev. G. G. Cookman, who was lost on board the steamship *President*. It also contains the "Acadia" of Longfellow, illustrated with many beautiful engravings. It also contains a very good short sketch of James Watk, but the wood-cut of his statue accompanying it, is a very indifferent one in deed.

THE WESTMINSTER REVIEW—This able foreign Quar-terly, for July, has been promptly issued by Messis. Leon-ard Scott & Co., 54 Gold street. It contains articles on Spinoza. International Immorality, Self-Education. Phys-ical Errors of Teetotalism. The Nerth and Man, the For-eign Policy of the United States, and Cotemporary Liter-ature. It is a splendin unmber. The Reviews, published by L. Scott & Co., are the best in the English language.

COACHMAKER'S MAGAZINE-This excellent Magazine for August, contains an engraving of the neatest Phæton, named 'Saladee's Extension Phæton,''we ever saw ; be-sides this, there are engravings of a new Sulky, a light Kockaway, and a Box Buggy. It is an excellent number.

THE MINING MAGAZINE.—This most useful Magazine has not been published lately so regularly as heretofore; we regret this, because it is so ably conducted, and con-tains so much thoroughly scientific information relating to Mining and Geology. Edited by Wm. J. Tenney, 96 Broadway.

NAUTICAL MAGAZINE—This Magazine for the present nonth containssome capital articles. It asserts that shipbuilding is but in its infancy, and has the "go-a-head" spirit in it. It is edited and published by Griffiths & Bates, 115 Nassaust.

THE COTTON PLANTER.—This is a small but a very ex-cellent monthly, edited by N. B. Cloud, M. D., La Place, Ala. The two last numbers contain beautiful illustrations of the cotton plant in its various stages, accompanied with excellent essays on its culture and uses.

Music-Oliver Disco. Boston, has just published two new and beautiful pieces, viz, "Meet by the Running Brook," a duet; and "Moonlight Hours," a quartette, the poetry and music by J. ty. Clark, a young poet and com-poser of music, and the author of quite a number of ex ceedingly sweet and popular pieces.



Inventors, and Manufacturers THE SCIENTIFIC AMERICAN.

ELEVENTH YEAR!

AMERICAN commences September 16th next. It is an ILLUSTRATED PERIODICAL,-devoted chiefly to the promulgation of information relating to the various Mechanic and Chemic Arts, Industrial Manufactures, Ag-riculture, Patents, Inventions, Engineering, Millwork, and all interests which the light of PRACTICAL SCIENCE

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