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## IMPROVEMENT IN WEIGHING SCALES.


in indicating the fractional parts. If all of $\mid$ The field for their introduction is large. The the weights are not wanted forimmediate use, improvement may be attached readily to the they may be shoved up under the fulcrum, out ordinary platform scales; indeed, the variety of the way, but still remaining in a conve- of form in which the principles of the patent nient position. An additional or extra weight can be presented, is endless.
may be hung upon the extreme end of lever $B$, when necessary.

| Bissell, of Charleston, S. C., will be happy to |
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The simplicity, compactness, and accuracy give any further information. The patent of these scales must be apparent to every one. bears date Feb. 5, 1856.

IMPROVED HAY PRESS.


Press for Hay, Cotton, de.
In this apparatus there is a strong shaft, A A, placed at each of the lower ends of the rame. The compression is effected by means of chains extending from the shafts to the ends of the follower beam, $B$, the chains being
wound up on the shafts; the latter are rota-
purchase on shafts, A A, during the back strokes of the levers, C C. F is a cord for releasing, at pleasure, the pawl of the secondary ratchet wheel, E. The levers, C C, are not permanently attached to shafts, A A, and may therefore be removed out of the way when not wanted for use.
The ends of bar G, which hold the doors together, fit into mortices in the frame-work of the machine, and thus relieve the doors from strain; the hinges being placed on the outer surfaces of the cross-pieces, the door will not fly violently open when the bar, $G$, is released and damage is thus prevented. The platform, H , is composed of separate pieces of plank, and is thus easily handled; the pieces are kept slightly apart by means of guide posts
This press is strikingly simple in all its parts, strong, portable, and cheapin construction. The invention is highly spoken of by all who have had it in use.
For further information address the inventor, C. J. Fay, North Lincoln, Me. Patented July 11, 1855.

A Great Artesian Well.
A new Artesian well is being bored in the Avenue Charles $X$., at the angle of the Avenue St. Cloud and Petit Pare, near Paris, for the purpose of supplying the ornamental lakes of the Bois de Boulogne. An interesting paper has been communicated to the Academy by M. Dumas on the subject, from which it appears that Mr. Kind, the engineer, has undertaken to bore a well 29 inches in diameter, and continue the sinking, if necessary, to the depth of 2500 feet, and thus obtain a daily supply of 10,000 cubic meters of water, being nearly equal to the volume of water delivered by the Seine through the Pont de la Tournelle, at Paris. The boring was commenced on August 2 d last, with a diameter of about 41 in . For some time, when the operations were through marl and chalk, the average daily progress was $161-2$ feet; then, through sand, it was reduced to $81-4$ to 10 feet; and now, having reached another stratum of chalk, con-. taining boulders, the speed is 5 feet, the depth being already upwards of 980 feet, and by May 1st it is expected that the enormous depth of about 2360 feet from the surface will be attained, being more than 490 feet deeper than the Artesian well at Grenelle. The motive power is a steam engine of 24 -horse power.

## Red Grantte.

Lord Stanhope, in the course of his lecture before a scientific society in London, speaking of the fragments of marble found in the alluvial soil which covers to a considerable depth the site of the Forum of ancient Rome, says that among the various marbles thus discovered, were considerable portions of red granite, known to exist in upper Egypt ; and then his Lordship adds, that all the red granite which now supplies the world, is derived either from the estate of the Earl of Aberdeen in Scotland, or else from the scattered fragments which the excavation of ancient cities yield. It is sidgular that the leanned lecturer had never heard of the vast quarries of red granite in Finland, of different shades, and susceptible of a polish equal in beauty to the most compact marble. In the deep gorges of the White Mountains, in New Hampshire, a species of beautiful red granite is found.

Bituminous and Anthracite Coal for Boilers.
The ferry steamboats plying on the East and'North rivers between this city and other places now use bituminous coal for fuel. Two years ago anthracite coal was exclusively used. We have been informed that the bituminous generates steam as rapidly as anthracite, is not so severe on the metal, and on the whole is cheaper.

