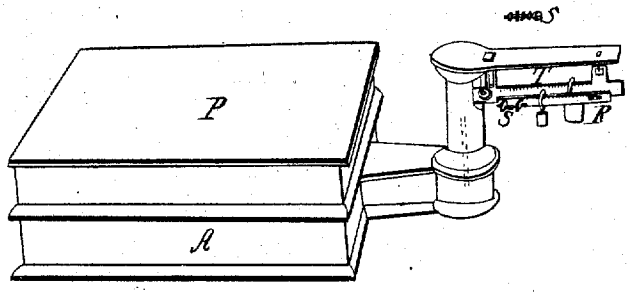
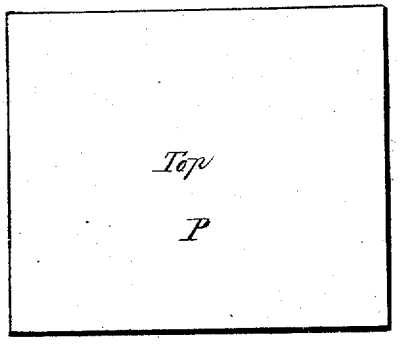
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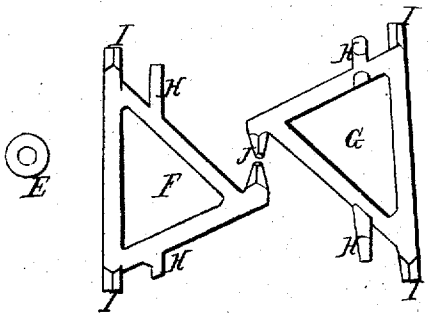
# J. M. Peck.

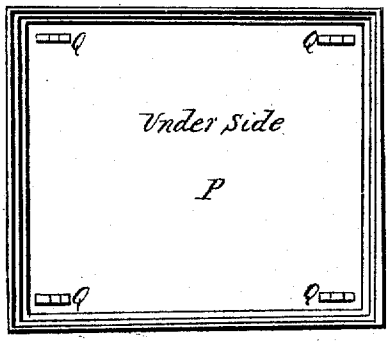
## Balance Scales.

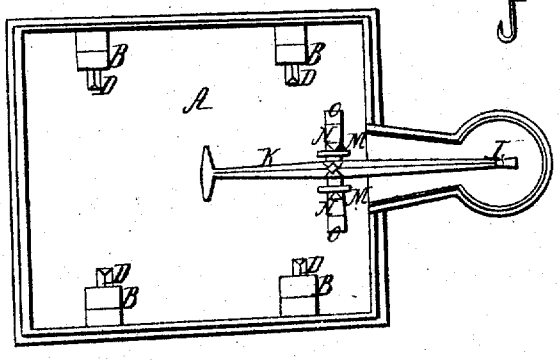
Patented May 23, 1836.




THE NORRIS PETERS CO., WASHINGTON, D. C.

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(May 23, 1836.) 509

# James M. Peck of Lyndon, State of Vermont

## Letters Patent.

The schedule referred to in these Letters Patent & making part of the same, containing a description in the words of the said James M. Peck himself of his improvement in the Platform Balance.

Be it known that I, James M. Peck of the Town of Lyndon in the County of Caledonia, & State of Vermont have made a new and useful improvement in the Platform Balance, which is described as follows, reference being had to the annexed drawing of the same making part of this specification. — This Balance consists of a rectangular box or case A, in which are erected four standards B, having arms at the top D, projecting at right angles, which arms are brought to a sharp edge on the top over which are suspended rings C, and in these rings, four in number are suspended the triangular compound levers, F, G, by arms H, projecting from them, formed into knife edges, similar to those just mentioned producing the points of support or fulcra of the balance — the bearing points I, of the platform being outside of the points of support just mentioned, These levers are of a triangular shape and have two other arms J, with knife edges, resting in the centre of the case & supplied by rings to the end of a third lever, K, placed below, This third lever is straight, and extends thro' the case, & a perpendicular rod L, connecting it with the short end of the steelyard, — having its fulcrum inside of the case near one end formed by two arms M, projecting from the sides of the lever with knife edges resting in rings connecting with arms, N, also having knife edges, projecting from standard O, fixed in the bottom of the case

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the fulcrum being of the second order. The end of the lever outside of the rectangular case is connected with the lower end of the perpendicular rod, by an arm or cross piece with an knife edge suspended in an eye formed at the end of the rod, the upper end of the rod is attached to the short end of the lever or Steelyard. The platform P. supported on the four knife edges I. of the triangular levers before described on four studs or supports Q. projecting from the under side of the platform, fitted with steel, bearing cavities in them to receive the knife edges of the levers. The platform instead of moving inside the case projects over it and moves on the outside thereof, having a perpendicular ledge or edging all round projecting downward, on the side of the long end of the steelyard or lever and parallel with it is a moveable index R. or Nonius graduated for determining the money.

It is regulated by a spiral spring and screw S, for producing equilibrium in the platform. The steelyard T. is graduated in the usual manner, a large poise is applied to the steelyard for determining the pounds, a small poise is applied to the Nonius for determining the ounces.

Operation. The platform being first brought to equilibrium by the poise and screw with the screw and spring the article to be weighed is placed upon the platform, then move the poise along the steelyard till it is balanced and determining the weight in pounds, the ounces being determined by the small poise moving along the nonius.

What I claim as my invention and desire to secure by Letters Patent, consists in the method of constructing platform so as to make it operate altogether on the side of the case instead of the inside: in the peculiar arrangement of the lever, so as to bring the bearing points of the platform at the outside of the fulcra of the triangular levers; and in the method of constructing the

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sliding monies as before specified and described

Witness Jesse M. Peak

Wm P. Elliot

Lucius Kimball

Exp
NYC

715 wds Drawing