E. A & A. Hibbard.

8847X

Platform Scales.

Patented May. 29. 1835.

Fig 2.

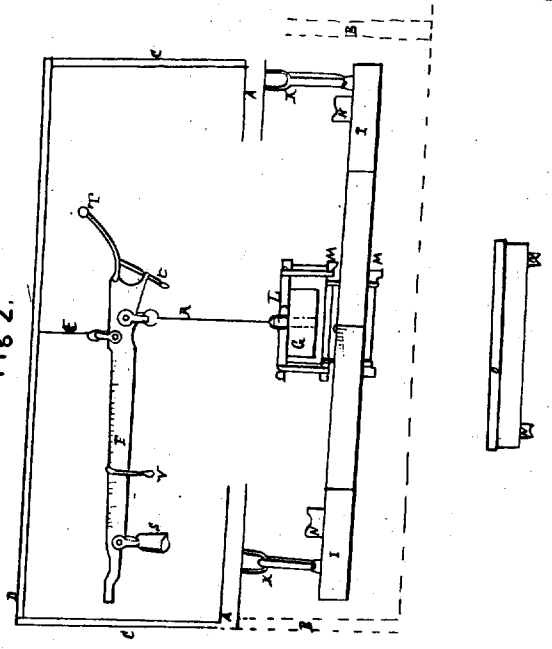


Fig 1.

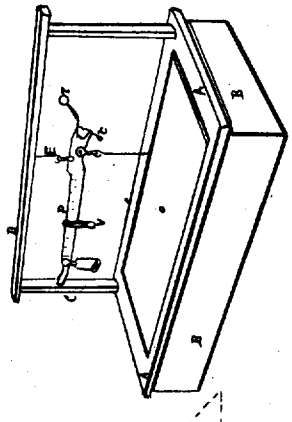


Fig 3.

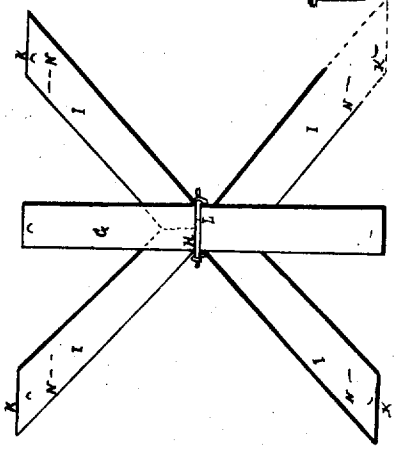
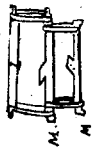


Fig 4.



Sept 1835 8847X

May 29. 1835 4

Elias A. Hibbard & Ira Hibbard Simsbury Conn.

Letters Patent

To all whom it may concern Be it known that Whereas Elias A. Hibbard and Ira Hibbard of Simsbury in the County of Hartford and State of Connecticut have represented unto the Commissioner of Patents that they have invented certain new and useful improvements in a Double Screw Seal; and that they desire to obtain Letters Patent for the same, and have complied with the requirements of the Law in this behalf.

Now these are to grant according to the said Elias A. Hibbard and Ira Hibbard their heirs, executors, administrators or assigns, for the term of fourteen years from the twenty-ninth day of May one thousand eight hundred and thirty-five, the full and exclusive right and liberty of making, using and vending to others to be used the said improvement, a description whereof is given in the words of the said Elias A. Hibbard and Ira Hibbard, and is accompanied by drawings and forms a part of these presents.

The nature of our invention consists in the construction of a double screw seal, which is made of two pieces of metal, each piece having a handle and a head, the head of one piece having a hole through it, and the head of the other piece having a pin projecting from it, which pin, when the two pieces are put together, passes through the hole in the head of the other piece, and the heads are then pressed together, so that the pin will enter the hole and hold the two pieces together, and the handles are then twisted together, so that the pin will pass through the hole in the head of the piece to which the handle is attached, and the head of the pin will be flattened down upon the head of the piece through which it passes, and thus the two pieces will be held together, and the seal will be complete.

To make a seal according to our invention, we take a piece of metal, and cut it into the shape of a handle, and a piece of metal, and cut it into the shape of a head, and we drill a hole through the head, and we cut a pin on the head of the other piece, and we put the two pieces together, and we press the heads together, so that the pin will enter the hole, and we twist the handles together, so that the pin will pass through the hole in the head of the piece to which the handle is attached, and the head of the pin will be flattened down upon the head of the piece through which it passes, and thus the two pieces will be held together, and the seal will be complete.

We do not claim the invention of a double screw seal, which is made of two pieces of metal, each piece having a handle and a head, the head of one piece having a hole through it, and the head of the other piece having a pin projecting from it, which pin, when the two pieces are put together, passes through the hole in the head of the other piece, and the heads are then pressed together, so that the pin will enter the hole and hold the two pieces together, and the handles are then twisted together, so that the pin will pass through the hole in the head of the piece to which the handle is attached, and the head of the pin will be flattened down upon the head of the piece through which it passes, and thus the two pieces will be held together, and the seal will be complete.

But we claim the invention of a double screw seal, which is made of two pieces of metal, each piece having a handle and a head, the head of one piece having a hole through it, and the head of the other piece having a pin projecting from it, which pin, when the two pieces are put together, passes through the hole in the head of the other piece, and the heads are then pressed together, so that the pin will enter the hole and hold the two pieces together, and the handles are then twisted together, so that the pin will pass through the hole in the head of the piece to which the handle is attached, and the head of the pin will be flattened down upon the head of the piece through which it passes, and thus the two pieces will be held together, and the seal will be complete.

In testimony whereof we have hereunto set our hands and seals this twenty-ninth day of May one thousand eight hundred and thirty-five.

Elias A. Hibbard (L.S.)
Ira Hibbard (L.S.)

the other through the Corner of the Angular Irons near the ends the link connecting the two Staples together & going into each, said Staples have pivot bearings at the points where they rest upon the links said links are of sufficient length to keep said angular Irons so low beneath said first described Irons as to admit of room for said first described Irons to act between said angular Irons and the tops of said Squares said first described Irons have an iron bolted on to the top of it at the above described Centre Hole which rises above it and projects out each side of the Iron with pivot bearings, Also Iron similar in Shape to the Capital letter T pivoted to the inside Side of the angle of one of said pair of Irons above described in such a manner that the ends of said Iron projects out each way from the points of said angle which projecting parts of said Iron have pivot bearings upon the under Side of those Irons Iron Similar in Shape to the one last described as pivoted on to the top of the angle of the other pair of said Irons with the ends projecting each way from the ends of said last mentioned angle the projecting parts of which last mentioned Iron have pivot bearings upon the upper side of those Irons directly over the bearings on the Iron so pivoted as aforesaid to the upper Side of one angle to the bearings on the Iron fastened as above described to the under side of the other angle. The Iron fastened as above described upon the upper Side of one of said angles extends each way from the ends of the angle further than the Iron on the under Side of the other angle, and has pivot bearings upon the under Side of it directly under the bearings upon the Iron pivoted as above described across the Centre of the first described Irons and pivoted at their ends bearings upon said Iron on the top of said angle are connected by the links to the said bearings and pivot bolts. Each arm of each angular Iron is divided into four equal parts one part from the Staple at the Corner of the Square by which the ends of the angular Irons are halfpassed & the dividing points and three parts from the dividing point to the Corner of the angle at the dividing points of the ends of each of said angular Irons Irons brought & pivot bolts to the tops of said Irons on which are placed Iron Jack Irons Respectively Connected with the Iron with which are attached

For Instructions for setting the Platform of the Scale and Beam for the long enough to make the Centers of the Platform above the Centers of the Scale Beam for Support of the Platform are to be taken upon it. The Platform is square and Square Notches. The first Notches square leaving a small Space all round the Platform between them and the Notches of the square Pieces for the

The Steel Yard or Lever has three Planes or Faces, the first bearing Scale by which it is suspended from the Hook the other to which the Weight to be weighed and another from which a Counterpoise is suspended, the bearing to which the Weight to be weighed is attached are near the End of the Lever and the bearing from which the Counterpoise is suspended are near the Back of the Lever and the bearings by which the Lever is supported are between them. The distance from the bearing of the Counterpoise & the bearing sustaining the Lever & the bearing to which the Weight to be weighed is attached. Said Counterpoise is cast with a Face to the Face from the Back to which Back is fitted Weights for to balance the Platform & the said Scale to the Weight to be weighed & when so balanced the Lever is to be divided into Inches & Tenths of Inches & Hundredths of Inches & a Table fastened upon the Lever against which Scale is drawn the Lever and the Line on the Scale is to give the Scale an even Balance.

The Lever gained by this Scale & the Counterpoise Back being found such as the Counterpoise Back will exactly balance the Standard Pound placed upon the Platform of the Scale & after that Line upon the Lever & give the said Pounds their Value is graduated and divided with figures like a Pair of common Steel Yards. The Scale is to be hung with the Face over a Cipher on the Lever that the Lever & Scale may be Ballanced even & not forcibly strained in the above mentioned Case is to be done by a small Weight by the Center of said Square Notch on the Back of which Lever is fastened a Steel Yard or Lever by which small Weight & the other End of which said Lever is brought to the Counterpoise Side of the Square opposite to said Weight by two Steps of Screws in said Lever by which Screws it is brought to

which said two bars being at each end of said first bars the Centres of the said four other bars which are pivoted together in pairs overlapping two angles the points of which two angles are placed together thereby the said Centre of said first described bars the arms of one of which pair of angular bars are pivotally united to the Centres of the above named square on the side opposite to said bar, by the arms & the other of which pair of angular bars are pivotally united to the Centres of said square next to said bar by the ends of each of the arms of which angular bars are being to such Centres of said square by two staples and a link at each Centre each of which staples passes through the Centre of said square and the other through the arms of the angular bars near the end which said link connects the two staples together by going into each which said staples have pivot bearings at the point where they rest upon said links; and which said links are of sufficient length to hang said angular bars so low beneath said first described bars as to admit of room for such first described bar between said angular bars and the tops of said square said first described bars has one more hole on to the top of it at the above described end which hole passes through and projects out each side of the bar without pivot bearings. The bar is similar in shape to the Capital letter "I" & rolled to the under side of the angle of one of said pair of bars above described in such a manner that two ends of said bar project out each way from the point of said angle which projecting part of said two ends pivot bearings upon the under side of those arms the bars similar in shape to the one last described & rolled to the top of the angle of the other pair of said bars with two ends projecting each way from the end of said last mentioned angle the projecting parts of which last mentioned bar have pivot bearings upon the upper side of them directly over the bearings on the one of said first mentioned angular bars two links are placed on each side of said angle which links connect the bearings on the two first mentioned bars above described & the upper side of one angle & the bearings on the one of others as aforesaid to the under side of the other angle. The two first bars above described upon the upper side of one of said square bars each way from the end of the angle & the two

[illegible] Sheet under side of the other angle and four feet resting on the
[illegible] Sheet under the bearings in the two holes as above
described from the Centre of the first mentioned two said last
mentioned bearings upon said arms in the top of said angle are connected
by two Links to the said bearings in said Cap one Link on each side of each angle
to Link Shaft in the equal part of the part from the Hole at the Cen-
ter of the Square by which the Angular Arms are suspended
to the Revolving Shaft and four parts from the Revolving Point to the Corner
of the angle at the Revolving Points of the arms of each of said angular Arms
being brought to a Point are rolled to the tops of said arms on which are
placed four Iron Pads made Circular by Grease at the bearings on which
are attached to the Inside Composing the platform of the Scales which
pads are long enough to raise the Inside of the platform above the level
of the Scale and which pads support the whole platform and returns
to Place upon it. Also at the end nearest the weigh and Measure
is fastened to one end of the Lever like a hinge to the Shank of the
Pad a Roller Screw acting against said pad raises and lowers said
pad and the Roller on the end of it to give the Scales exact bal-
ance.

The following described Metes Limitations and Bounds Marks
to the foregoing Specification before beginning to this the Second Side, on the
first page, between the 22 and 23 line from the top also the word
Iron between the 23 and 24 line from top also the word two between
the 37 and 38 line from top also the word Iron between the 39 and
40 line from top also the word long between the 44 & 45 line from top
of page 2 line 11 from top and the word on the same page between
the Words 16 line from top the word "Pads" in Millwright on Erasure
in the 18 line also the word Iron between the 24 & 25 line from top in
Indorsed.

Attest
Hiram Reynolds } Elias Hilliard
Simon Reynolds } Elias J. Hilliard

Elias Hilliard

Elias J. Hilliard

Elias Hilliard