417-521

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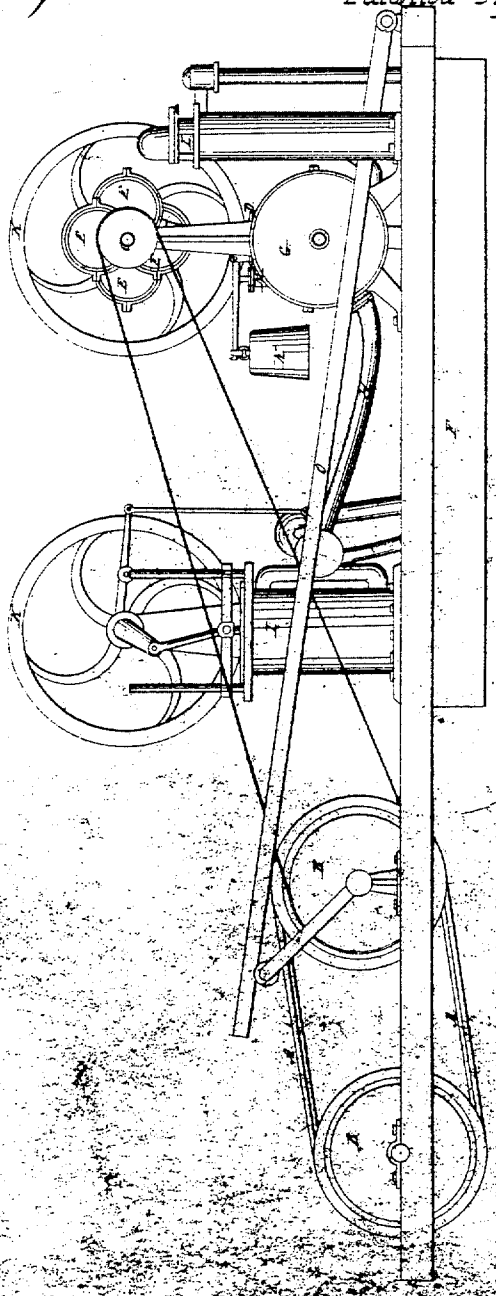
Sheet 1-3 Sheets

T. P. Codman,

Force Pump,

7,548 X

Patented Apr. 20, 1833.



702

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103. PUMPS,
169

Sheet 2-3 Sheets

T. P. Codman.

Force Pump.

Patented Apr. 20, 1833.

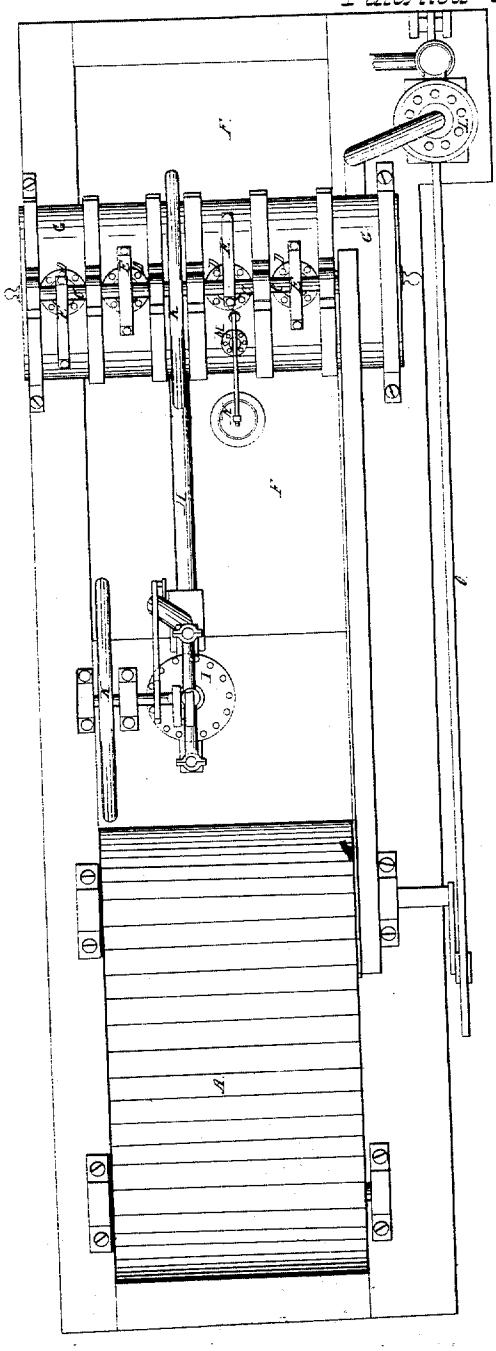


Fig. 2.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON D. C.

103. PUMPS.

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169

Sheet 3 3 Sheets

T. P. Codman

Force Pump.

Patented Apr. 20. 1833.

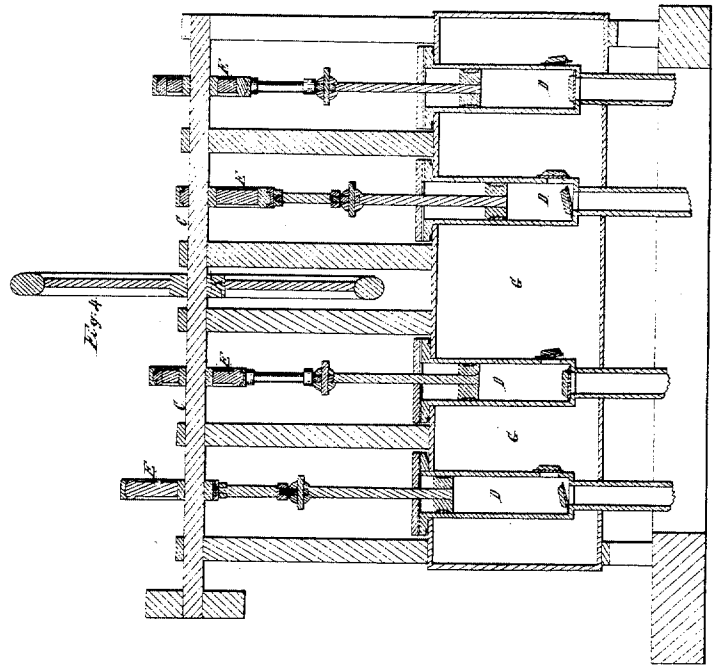


Fig. 4

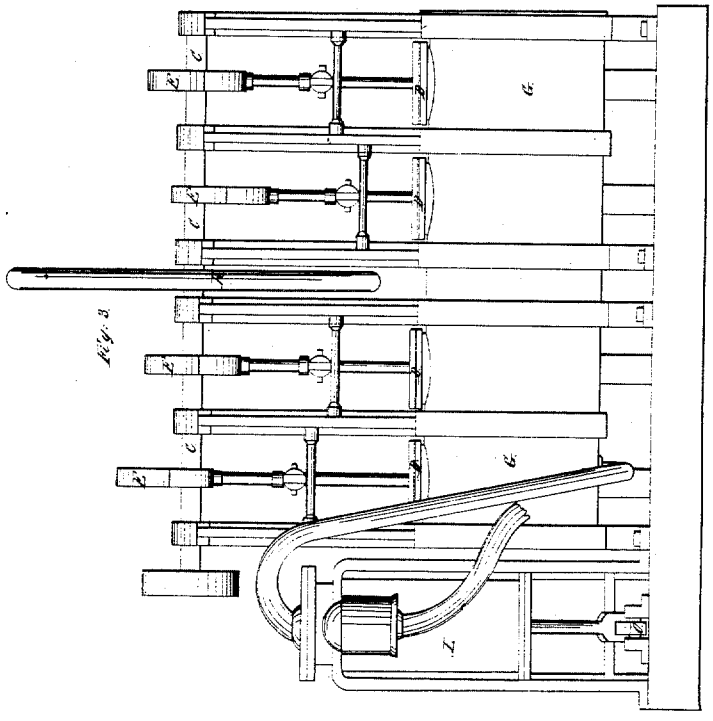


Fig. 3

N. PETERS, PHOTO-LITHOGRAPHER, W... HGTON, D. C.

7548X

Apl 20, 1833

497.

Thomas P Coleman

Letters Patent

The Schedule referred to in these Letters Patent and making part of the same Containing a description in the words of the said Thomas P Coleman himself of his Improvement being a mode of constructing Cisterns & Boilers of Wrought Iron, and applying them in such a manner as to propel Water by means of Machinery

To many persons & other Sentients Animals to whom it may be necessary to be supplied on a travelling Platform constructed in the following Manner Several Cylinders Pumps of wood are strung together and strongly bound into large Pumps or Cylinders which form a travelling Platform they are made to have a horizontal Shaft to which is attached a number of forcing pumps by means of Eccentrics they raise the water from a Cistern and force it into a cylinder in which they stand the air within this Cylinder is not suffered to escape consequently the pressure of water from the pumps compresses the air on the surface the elastic force of the Compressed air forced the water from the Cylinder into a tube leading from the bottom of the Cylinder the water stops the top & bottom pieces of the pistons contained within this Cylinder and keeps them in the pipes are leading from the top & other bottom from the bottom of this Cylinder into the Cistern from whence it was taken where it is again taken up and pumped there the same routine as before specified

Descending Pumps is attached to the first named Cylinder which must be used to force in air to the pressure of several Atmospheres More or Likewise on the same Cylinder a pressure Gauge & Stem the pressure within the Cylinder the Shaft that the pumps are attached & the eccentrics are placed at different angles & that the water may be forced in regularly which keeps up the pressure of the air within

There is also on each & one of the Shafts a Balance Wheel for regulating the motion of the Machinery & the Water Pipes Conducting or bringing water to the water Pumps are

7548X

Specification of a Dispensing with the Water Pumps & Valve Gear of Steam Engines working in the Cylinders the Steam and the Water, by which Machinery & Propellers may be attached either by Cranks or Bevels to the Paddle Wheel Shaft or Shafts of the Steam Vessel Cylinders & Valve Gear may be increased or decreased by increasing or decreasing the Size of the Boilers that the Vessel runs on.

Most Solemn as may be Necessary & Necessary to the Steamer herein described & Combining Valve Gear Applying the herein Specified Powers & as to Propel Various Kinds of Machinery

Witnesses
Charles Henshaw
John Henshaw

Thomas P Codman

[5 Sheets]