

(No Model.)

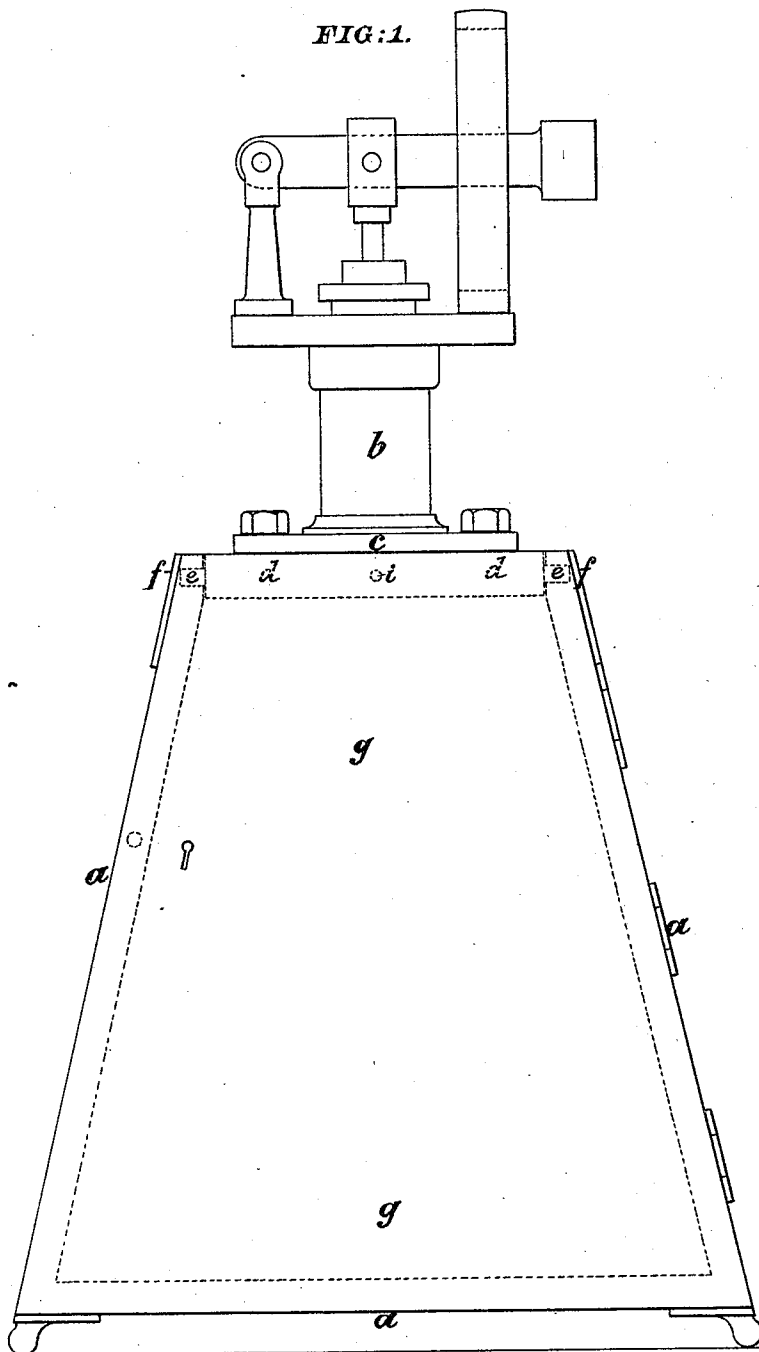
2 Sheets—Sheet 1.

J. F. L. CROSLAND & W. H. BAILEY.
STAND FOR PORTABLE FORCE PUMPS.

No. 427,403.

Patented May 6, 1890.

FIG:1.



Witnesses.
George Baumann
John Revell

Inventors.
James F. L. Crossland
William H. Bailey
By their Attorneys
Horton and Horton

(No Model.)

2 Sheets—Sheet 2.

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STAND FOR PORTABLE FORCE PUMPS.

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FIG: 2.

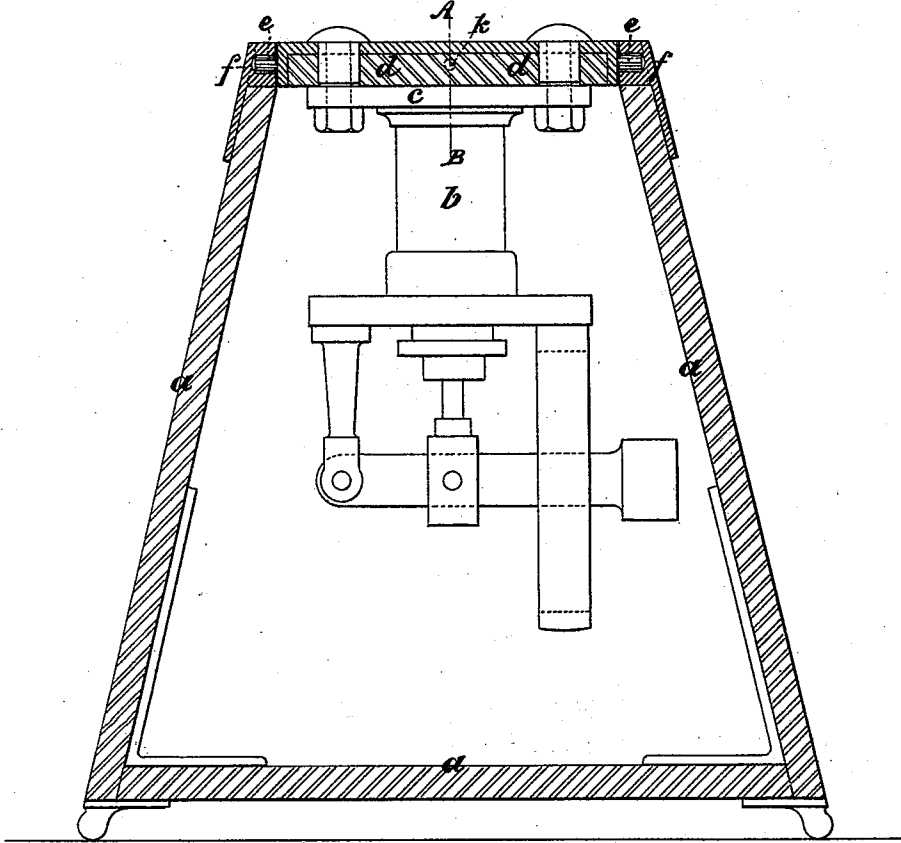
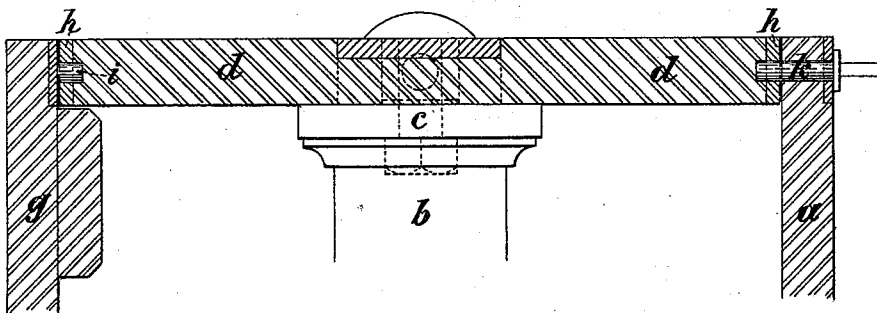


FIG: 3.



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UNITED STATES PATENT OFFICE.

JAMES F. L. CROSLAND, OF MANCHESTER, AND WILLIAM H. BAILEY, OF
SALFORD, COUNTY OF LANCASTER, ENGLAND.

STAND FOR PORTABLE FORCE-PUMPS.

SPECIFICATION forming part of Letters Patent No. 427,403, dated May 6, 1890.

Application filed October 1, 1889. Serial No. 325,662. (No model.)

To all whom it may concern:

Be it known that we, JAMES FOYELL LOVE-
LOCK CROSLAND and WILLIAM HENRY BAI-
LEY, subjects of the Queen of Great Britain
and Ireland, and residing, respectively, at
Manchester and Salford, both in the county
of Lancaster, England, have invented an Im-
proved Stand for Portable Force-Pumps, of
which the following is a specification.

This invention relates principally to stands
for portable hydraulic force-pumps, such as are
employed for testing the strength of steam-
boilers, but it is also applicable to other por-
table force-pumps; and the object of the in-
vention is to increase the portability of such
pumps, and to afford a ready means of set-
ting up such pumps for use, and of dismount-
ing and packing the same for removal, trans-
port, or storage, at the same time that weight
and bulk are considerably reduced.

The invention consists of a stand or pedes-
tal, upon which the pump is mounted for use,
which stand is so constructed and arranged
that when the pump is no longer required for
use it can, by a simple movement and with-
out dismounting, be readily turned over and
packed into the interior of the stand or pedes-
tal, so that the latter serves for two purposes—
namely, for a frame or base to support the
pump when in use and also a case for pack-
ing the same for transport or storage, and
thus the necessity for a separate stand or
frame and case is obviated, and the bulk and
weight to be carried from place to place are
greatly diminished.

The manner in which our invention is car-
ried into practical effect will be readily un-
derstood on reference to the annexed sheets
of drawings and the following explanation
thereof.

Figure 1 on the drawings represents an ele-
vation of our improved stand or pedestal,
showing a force-pump as bolted thereon and
in the position it occupies when in use. Fig.
2 is a section taken through about the center
of the same, showing the position which the
lid and pump assume when the lid is re-
versed and the pump is packed inside the
stand, ready for transport or storage; and
Fig. 3 is a section through the lid and upper
part of the stand, taken at about the line A B
on Fig. 2, and drawn to a larger scale.

The stand or pedestal *a* is shown on the
drawings in the form of a truncated pyramid,

and chiefly made of wood, which form and
material we prefer, as combining lightness
and rigidity with great portability; but we
would here remark that the sides may be ver-
tical, if preferred, and that it may be of an
octagonal or other convenient form in ground
plan, if thought desirable, and it may also be
made of a light framing of angle-iron, with
sheet-metal panels.

We cast the cylinder *b* of the pump with a
base-plate *c*, having lugs, by means of which
it is bolted firmly and permanently to the top
or lid *d* of the pedestal *a*. This top or lid
d is provided with two pivots or trunnions
e, fitting into suitable sockets *f*, screwed to
the upper edges of the two sides of the
pedestal *a*, so that the whole of the top or
lid *d*, with the pump bolted thereto, can be
turned over from the working position shown
at Fig. 1 into the position shown at Fig.
2, which brings the pump into the interior
of the stand or pedestal, so that the latter
serves as a casing or cabinet to inclose the
same. The loose lever, the suction and de-
livery hose, nozzle, and other detachable por-
tions being removed from the pump previ-
ously to turning the lid *d* over, can then be
arranged round the pump, inside the case,
and the door *g* may be closed and locked. In
order to hold the top or lid *d* firmly in either
position, it is provided with two correspond-
ing metal plates *h*, each pierced with a hole
in the center. A pin *i*, fixed in the door,
takes into one of these holes, and a movable
pin or bolt *k* (see Fig. 3) is passed into the
other. It will be evident that when the lid
is to be turned over either way the door must
be opened and the pin *k* removed.

I claim—

A hollow stand or pedestal for portable
force-pumps, combined with a pivoted lid,
whereby the said stand can be converted into
a packing-box for the pump, and a hinged
door with a securing-pin to lock the lid, with
the pump firmly in either position when the
door is closed.

In testimony whereof we have signed our
names to this specification in the presence of
two subscribing witnesses.

J. F. L. CROSLAND.
W. H. BAILEY.

Witnesses:

E. BUTLER ROWLEY,
JNO. HUGHES.