

No. 683,061.

Patented Sept. 24, 1901.

H. NORDTMEYER.
PORTABLE FILTERING APPARATUS.

(Application filed May 27, 1901.)

(No Model.)

Fig. 1.

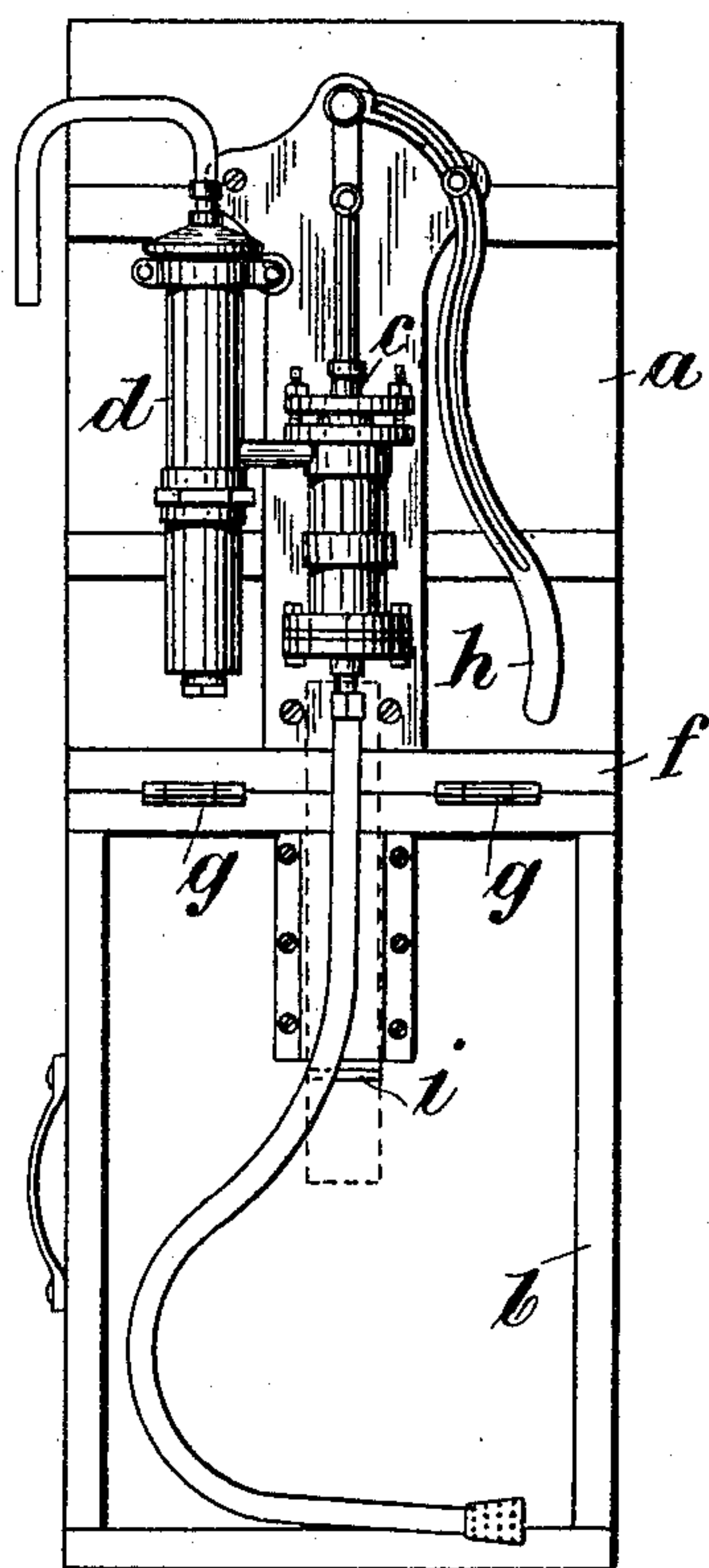


Fig. 2.

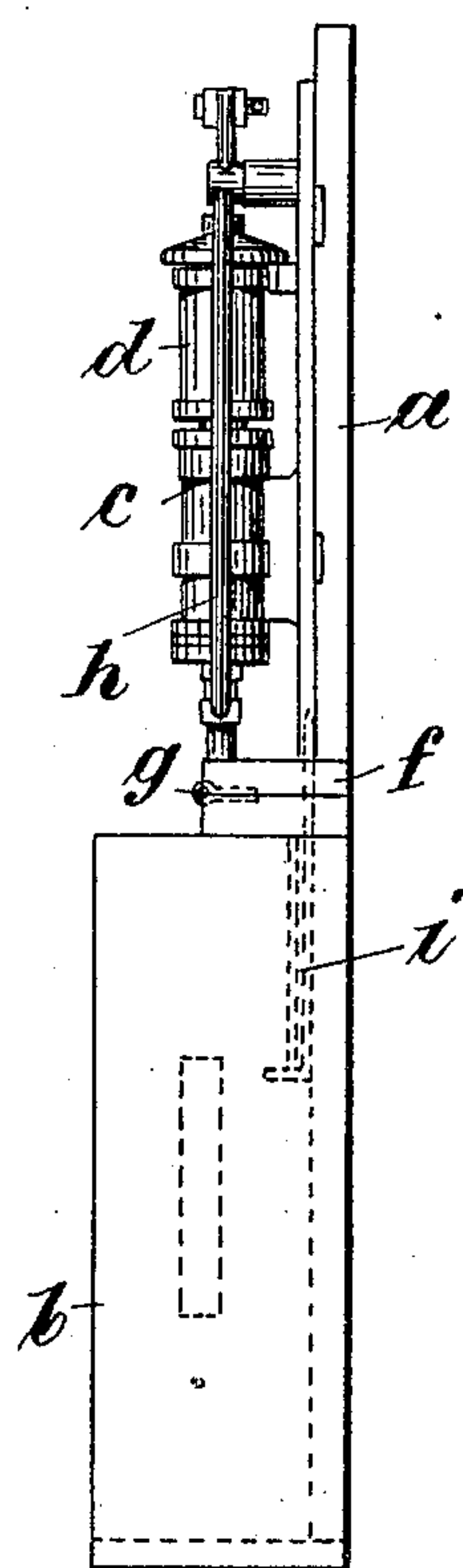
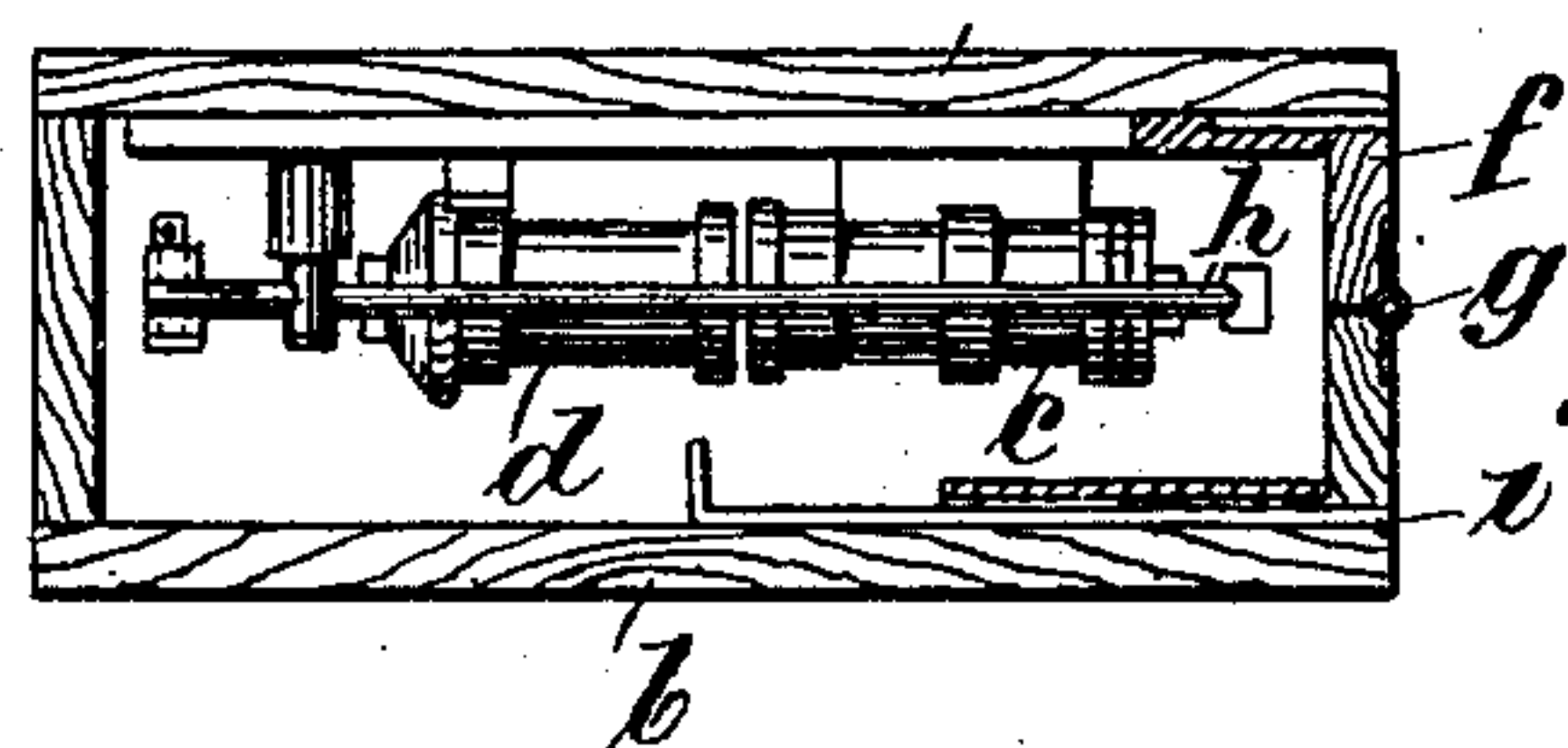


Fig. 3.



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PORTABLE FILTERING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 683,061, dated September 24, 1901.

Application filed May 27, 1901. Serial No. 62,012. (No model.)

To all whom it may concern:

Be it known that I, HERMANN NORDTMEYER, a subject of the German Emperor, residing at Celle, Province of Hanover, German Empire, have invented certain new and useful Improvements in Portable Filtering Apparatus, of which the following is a specification.

The present invention provides a portable apparatus which can be packed for transportation into a very small space conveniently, quickly, and firmly without special care, so that it is easily stowed, which can be put into operation at once in any desired place, the packing-case being adapted for use as the stand of the apparatus, and which can then be quickly and securely repacked. The packing-case when closed may be in the form of a hand-satchel or coffer, or may be provided with straps to form a knapsack without any projecting parts, as may be designed in any exterior form suitable for transportation.

My improved filtering apparatus, combining the filtering mechanism with a packing-case, which also serves as a stand, is especially advantageous for troops in the field, expeditions in the tropics, &c.

In the accompanying drawings, showing one embodiment of my invention, Figure 1 is a front elevation showing the same in the opened position. Fig. 2 is a side elevation of the same. Fig. 3 is a longitudinal section, the box being closed.

The preferred form of my apparatus as shown comprises a filter and a means for feeding the filter—such, for example, as a pressure or suction pump connected thereto—both the filter and feeding means being arranged in such a way on the cover of a box that the cover when held in the entirely-opened position forms, together with the box, a stand, which permits the use of the apparatus at any desired place.

Referring to the drawings, *a* indicates the cover of a box *b*, on which cover are fastened a pump *c* and a filter *d*, connected to the pump, so that the liquid sucked up into the pump is forced through the filter, or obviously the liquid, such as water, might be sucked through the filter by means of the pump. For the greatest simplicity in setting up the apparatus and solidity after it has been set up I prefer to fasten the cover *a* to

a half *f* of one of the sides of the box, the other half of said side being fastened to the box and hinged to the half *f*, as shown. When the box is opened into the position shown in Figs. 1 and 2, the half *f* of the side which is fastened to the cover rests on the half which is fastened to the box, so that the cover in its upright position has a sufficient support and is arranged at a convenient height for grasping the handle *h* of the pump. I preferably provide also a sliding bolt *i* on the bottom of the box, whereby the cover may be held securely in the open position. The hinged edge of the half *f* of the end is preferably in such a position as to bring the central plane of the pump and filter into coincidence with the central plane of the box, so as to prevent any sidewise tipping of the box while pumping. By withdrawing the bolt to the position shown in Fig. 3 the cover *a* can be turned down to close the box, the filter, pump, and suction-pipe all finding place inside.

What I claim, and desire to secure by Letters Patent, are the following defined novel features and combinations:

1. A portable filtering apparatus comprising in combination, a filter, means for feeding the same, and a box adapted when open to form the stand of the filtering apparatus and when closed to serve as the packing and transporting case thereof.

2. A portable filtering apparatus comprising in combination a filter, means for feeding the same, a box, and means for holding said filter and feeding means fastened in the box when closed so that the box serves as a packing and transporting case, and for fastening the filter and feeding means outside of the box so that the latter serves as a stand for the apparatus when in use.

3. A portable filtering apparatus comprising in combination, a filter, means for feeding the same (as for example a pressure or suction pump or the like), and a box having a cover on the inner side of which said filter and feeding means are arranged, said box adapted when open to form the stand of the filtering apparatus, and when closed to serve as the packing and transporting case thereof.

4. A portable filtering apparatus comprising in combination, a filter, means for feed-

ing the same (as for example a pressure or
suction pump or the like), and a box having
a cover on the inner side of which said filter
and feeding means are arranged, said box
5 adapted when open to form the stand of the
filtering apparatus, and when closed to serve
as the packing and transporting case thereof,
a half *f* of a side of the box being fastened to
the cover, the other half of said side being
10 fastened to the box and hinged to the half *f*,
whereby a secure support is obtained for the

apparatus during its operation, and a bolt *i*
on the bottom of the box for holding the cover
in its open position.

In witness whereof I have hereunto signed 15
my name in the presence of two subscribing
witnesses.

HERMANN NORDTMEYER.

Witnesses:

LEONORE RASCH,
JAY WHITE.