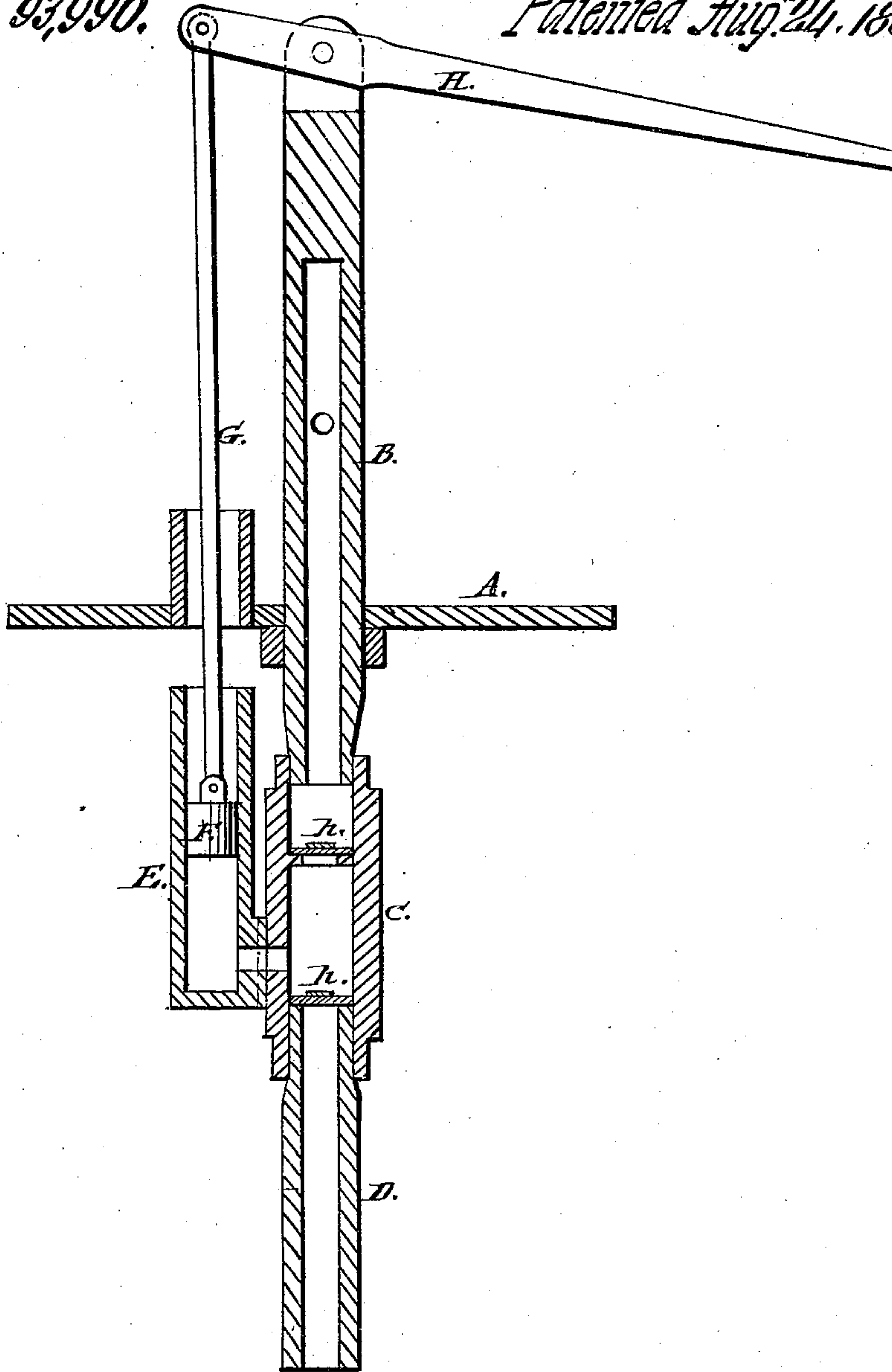


*M. C. Hawkins,*

*Fumhr.*

*No. 93,990.*

*Patented Aug. 24, 1869.*



**WITNESSES:**

*A. B. Merckendorf*

*John H. Brooks*

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# United States Patent Office.

M. C. HAWKINS, OF EDINBOROUGH, PENNSYLVANIA.

*Letters Patent No. 93,990, dated August 24, 1869.*

## IMPROVEMENT IN PUMPS.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that I, M. C. HAWKINS, of Edinborough, in the county of Erie, and State of Pennsylvania, have invented a new and useful Improvement in Pumps; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

This invention relates to a new and useful improvement in pumps, designed for a combined forcing and lifting-pump; and consists in the employment of a glass, stone, or earthen pump-barrel, with wood tubing, valve-chamber, and platform, all constructed and arranged in the manner hereinafter described, whereby the several parts of the apparatus are made detachable, for the purpose of rendering the same portable.

The drawing represents a vertical section of a pump, constructed according to my invention.

A is the platform;

B is the pump-stand;

C represents the valve-chamber;

D is the tubing; and

E is the barrel, which is made of stone, glass, or earthen-ware, and is securely attached to the valve-chamber or valve-section C of the pump, by means of flanges and bolts.

F is the piston, which works in the barrel E.

G is the pump-rod.

*h h* represent the valves. The lower valve closes on

the top of the tube D on a seat. The upper valve has its seat on a partition, *i*, in the valve-chamber, which partition is made for that purpose in boring the chamber.

The use of the material named, in the construction of the pump-barrel, renders it comparatively indestructible, besides being far less liable to become or remain coated with the impurities contained in the water than those ordinarily employed.

Its manner of attachment to the valve-chamber also obviates the common objection, previously made to stone barrels, since it cannot be broken or disarranged by any ordinary means or usage.

My invention, as a whole, forms a portable apparatus superior to any now in use, being composed of parts detachable each from the other, the operation involving but little time and labor. The same may be as readily put together again, when desired, by any person possessing ordinary mechanical ability.

Having thus described my invention,

I claim as new, and desire to secure by Letters Patent—

The portable pumping-apparatus herein described, consisting of the platform A, pump-stand B, valve-section C, and tubing D, with valve *h h*, the stone barrel E, piston F, rod G, and brake-lever H, all constructed and arranged as herein shown and described.

M. C. HAWKINS.

Witnesses:

H. M. CURTIS,

L. HAWKINS.