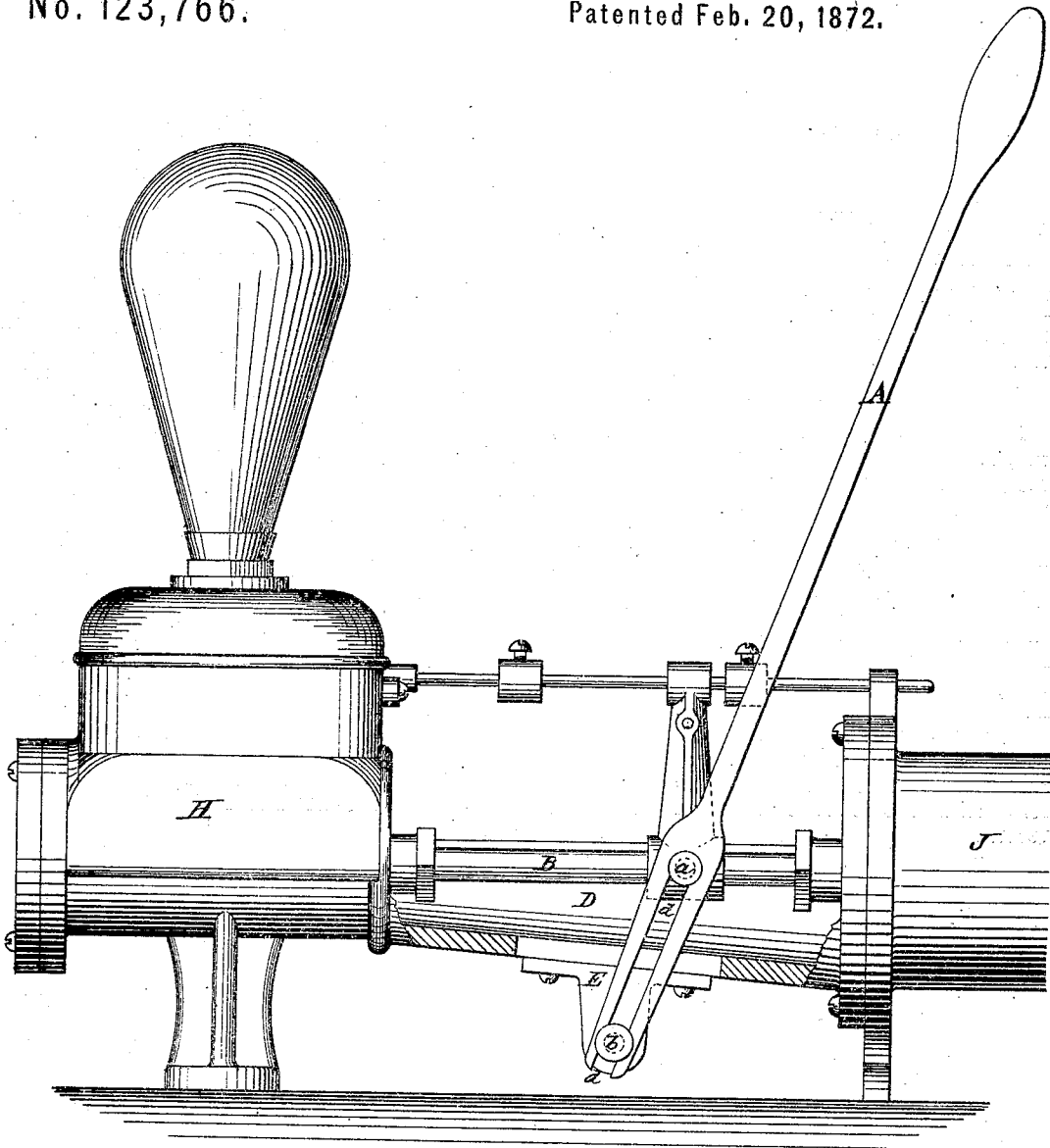


GEORGE F. BLAKE.

Improvement in Steam Pumps.

No. 123,766.

Patented Feb. 20, 1872.



Witnesses:

T. C. Drecht.

O. E. Duffy

Inventor:

Geo. F. Blake

By his Attorney

Chas. F. Ransbury

UNITED STATES PATENT OFFICE.

GEORGE F. BLAKE, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN STEAM-PUMPS.

Specification forming part of Letters Patent No. 123,766, dated February 20, 1872.

I, GEORGE F. BLAKE, of Boston, county of Suffolk, Commonwealth of Massachusetts, have invented a new and Improved Arrangement of Detachable Lever for Obtaining Reciprocating Motion, of which the following is a specification, referring to accompanying drawing and to letters of reference marked thereon.

Nature and Object of Invention.

My invention relates to an improved arrangement of detachable lever for obtaining reciprocating motion, adapted to use as a hand-power attachment to steam-pumps.

In the drawing my improvement is shown applied to one of my steam-pumps.

A marks a lever, forked or slotted at its lower end to pass over two pins; one, *a*, attached to the piston-rod B; the other, *b*, forming the fulcrum of the lever A, and attached to a bracket, E, projecting down from the frame D of the pump, below the pin *a*.

In operating, the slotted lever A works on the pin *b* as a fulcrum, and carries the piston-rod B, by means of the pin *a*, backward and forward as the lever is moved in a similar direction.

It will be seen that, as the lower end of the lever is forked and has an open end to the slot *d*, it can be readily attached to or removed from the pins *a b*. Also, as the pin *b* is placed below the rod B, and in the body of the connecting piece between the cylinders H J, when this device is used on steam-pumps, no unsightly projections or complicated arrangement of fulcrum-bearing is necessary, as is common in other devices for this special purpose.

I claim—

As an improvement in steam-pumps, the arrangement, in a steam-pump, of the detachable forked lever A, working upon the two pins *a b*, when constructed and operated as and for the purpose herein specified.

The foregoing specification signed and witnessed at Washington this 9th day of June, A. D. 1871.

GEO. F. BLAKE.

Witnesses:

CHAS. F. STANSBURY,
E. R. STANSBURY.