

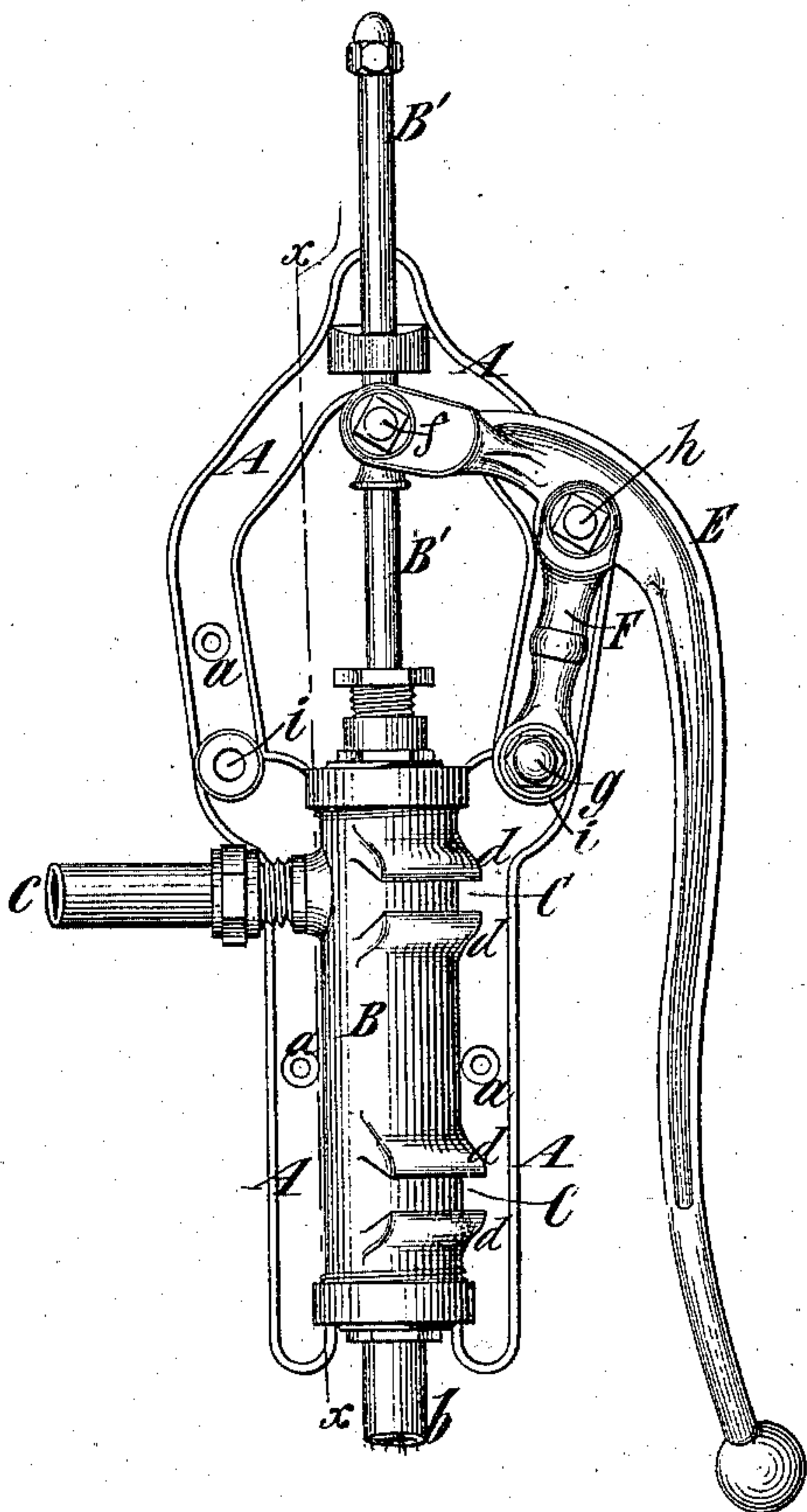
(No Model.)

J. BULGER, Jr.  
Pump.

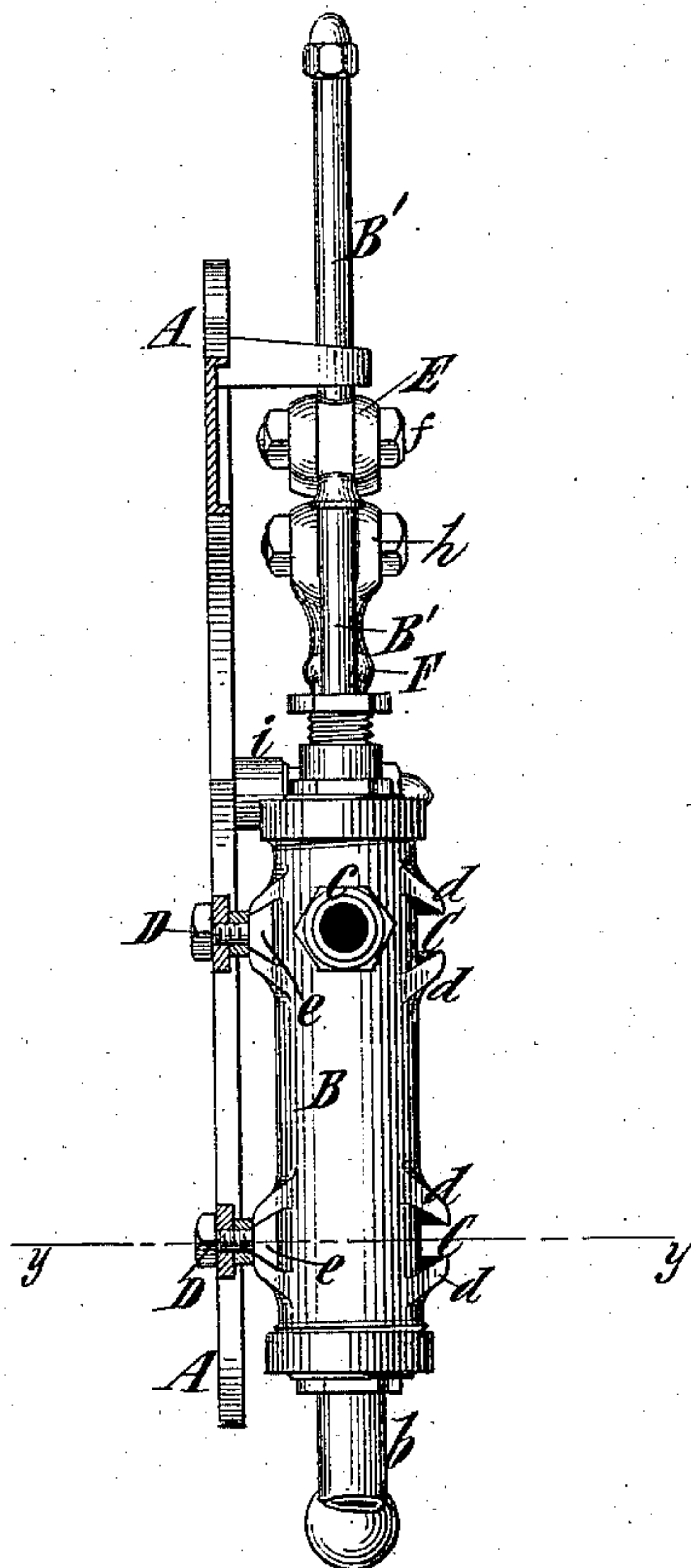
No. 239,439.

Patented March 29, 1881.

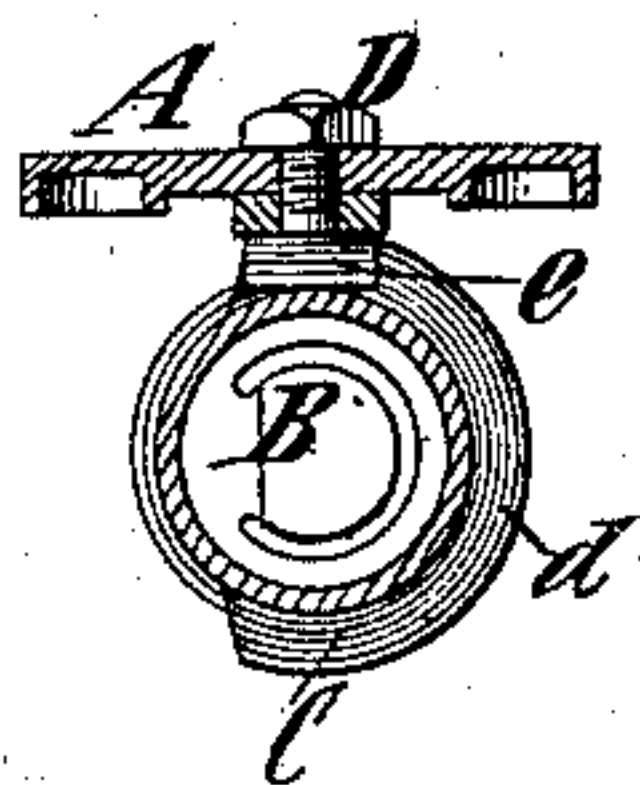
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses:

*Frederick W. Haynes*  
*Alfred W. Webb*

Inventor:-

*James Bulger, Jr.*  
*By: H. A. Brown*  
*Robert A. Brown*



# UNITED STATES PATENT OFFICE.

JAMES BULGER, JR., OF BROOKLYN, NEW YORK.

## PUMP.

SPECIFICATION forming part of Letters Patent No. 239,439, dated March 29, 1881.

Application filed January 25, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES BULGER, JR., of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Pumps, of which the following is a specification.

My invention relates especially to ordinary house-pumps in which the barrel or cylinder is secured to a vertical frame, and by said frame to the wall or other support.

The invention consists in a novel means of securing the pump barrel or cylinder to the frame, so as to provide for turning the barrel or cylinder to bring the discharge-outlet in any desired position.

It also consists in the combination, with a pump barrel or cylinder, a handle for operating its piston, and a swinging link, forming a fulcrum for said handle, of a frame to which the barrel or cylinder is secured, and which is provided on each side of the center with a bolt-socket, and a bolt upon which said link may swing, and which may be inserted in either of said bolt-sockets, to make the pump either right or left handed.

In the accompanying drawings, Figure 1 represents a side view of the pump. Fig. 2 represents a sectional side view upon the dotted line *xx*, Fig. 1, and Fig. 3 represents a horizontal section upon the dotted line *yy*, Fig. 2.

Similar letters of reference designate corresponding parts in all the figures.

A designates a cast-metal skeleton-frame, adapted to be placed against a wall or other support in an upright position, and provided with holes *a*, through which may be inserted securing-screws.

B designates the pump barrel or cylinder, and B' the piston-rod thereof, both being of any desired construction. At the bottom of the barrel or cylinder is a suction-pipe, *b*, and projecting from the side thereof is a discharge-pipe, *c*.

In putting up pumps, especially sink-pumps, it is often found desirable and even necessary to shift the discharge-pipe so as to cause it to project in a particular direction—as, for instance, when the pump is placed over a corner-sink having a circular front, or a sink of other peculiar shape—and pump barrels or cylinders have been connected to their frames in various

ways to admit of this. To this end I construct the pump barrel or cylinder with circumferential dovetailed flanges *d*, arranged in pairs, so as to form between the flanges of each pair a dovetailed slideway or channel, C.

D designates bolts, which are inserted through the frame A, and are provided with dovetailed heads *e*, conforming in shape and size to the channels or slideways C, so as to slide readily therein. The bolts D are provided, back of the frame A, with nuts, and when it is desired to shift the pump barrel or cylinder these nuts are loosened, and the barrel or cylinder can be readily turned to the desired position, after which the nuts may be tightened to cause the edges of the flanges *d* to bite upon the frame A, and thus retain the barrel or cylinder in place. As shown in Fig. 3, the flanges *d* do not extend entirely around the barrel or cylinder, and thus provision is afforded for entering the heads *e* in the slideways or channels C.

For each of the dovetailed channels or slideways C there might be substituted a single flange dovetailed upon opposite sides, and adapted to fit in a correspondingly-dovetailed channel or slideway in the bolt-head.

In lieu of having straight inclined sides, the channel or slideway C might have rabbeted sides, and the head of the bolt D be made T-shaped to fit in said rabbeted slideway; or a single flange rabbeted upon one or both sides might be employed in place of each channel or slideway, and the bolt-heads be made to receive said flange.

E designates the handle, which is pivoted at *f* to the piston-rod B', and is employed to work the pump. F designates a swinging fulcrum-link, pivoted by a bolt, *g*, secured in the frame A, and forked at its upper end, so as to embrace the pump-handle E, which is pivoted therein by a bolt, *h*. The frame A is provided upon each side of its center with sockets *i*, which are adapted to receive the bolt *g*, and thus provision is afforded for conveniently reversing the handle to make the pump right or left handed, as the circumstances of the case may require.

By my invention I provide a very desirable and durable pump of simple construction.

I am aware that it is old to secure a pump



cylinder or barrel to its frame by means of a  
semicircular strap or band bolted at each end  
to the frame, and passing around the front of  
the cylinder or barrel, which affords facility  
5 for turning the pump-barrel by loosening the  
bolts which secure the strap or band to the  
frame, and I do not claim this as of my inven-  
tion.

What I claim as my invention, and desire to  
10 secure by Letters Patent, is—

1. The combination, with a pump barrel or  
cylinder, constructed with circumferential dove-  
tailed or rabbeted flanges, of a frame and bolts  
secured in said frame, and having heads fitting  
15 said dovetailed or rabbeted flanges, substan-  
tially as and for the purpose specified.

2. The combination of the pump barrel or

cylinder B, constructed with pairs of flanges  
d, forming slideways or channels C, the frame  
A, and the bolts D, having heads e fitting said 20  
slideways or channels C, substantially as speci-  
fied.

3. The combination of the barrel or cylinder  
B, the operating-handle E, the swinging ful-  
crum-link F, pivoted at its lower end by the 25  
bolt g, and forked to embrace said handle, and  
the frame A, having bolt-holes i upon opposite  
sides of its center, in either of which said bolt  
may be inserted, all substantially as and for  
the purpose specified.

JAMES BULGER, JR.

Witnesses:

FREDK. HAYNES,

A. C. WEBB.