

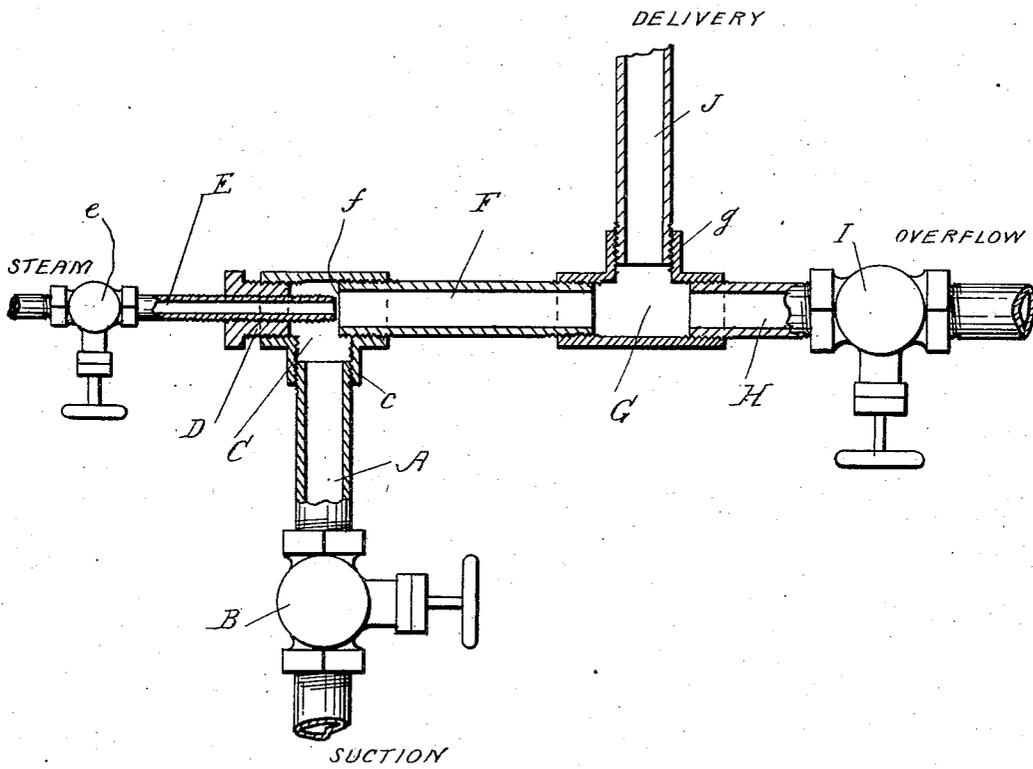
No. 787,453.

PATENTED APR. 18, 1905.

E. W. KELLER.

JET PUMP.

APPLICATION FILED DEC. 23, 1904.



WITNESSES:

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EDMON W. KELLER, OF CRIPPLECREEK, COLORADO.

JET-PUMP.

SPECIFICATION forming part of Letters Patent No. 787,453, dated April 18, 1905.

Application filed December 23, 1904. Serial No. 238,112.

To all whom it may concern:

Be it known that I, EDMON W. KELLER, a citizen of the United States, residing at Cripplecreek, in the county of Teller and State of Colorado, have invented certain new and useful Improvements in Jet-Pumps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to jet-pumps for raising water and other fluids; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

The drawing shows a plan view of the jet-pump in section.

A is the suction-pipe, and B is a suction-valve of any approved construction secured to the inlet-pipe.

C is a T junction-piece having its branch *c* screwed onto the end portion of the suction-pipe. A bush D is screwed into one of the ends of the straight portion of the T-piece.

E is a steam-pipe, which is screwed into the said bush so as to be adjustable longitudinally, and *e* is a stop-valve of any approved construction connected to the said steam-pipe.

F is a short and straight piece of pipe or tube having one end portion screwed into the other end portion of the T-piece C so that the extreme end of the pipe F projects a little across the open end of the suction-pipe and so that the ends of the pipes E and F are level with each other, leaving a small annular space *f* between them.

G is a second T junction-piece, having a branch *g*. One end portion of the straight part of the T-piece G is screwed over the other end portion of the pipe F, and H is an overflow-pipe screwed into the other end portion of the straight part of the T-piece G.

A valve I of any approved construction is secured to the overflow-pipe, and all the valves are provided with suitable handles, so that they may be regulated by hand.

J is a delivery-pipe, which is screwed into the branch *g* of the T-piece G.

The overflow-pipe valve is opened and steam

is admitted through the steam-pipe until the water or other liquid flows freely from the overflow-pipe. The overflow-pipe valve is then closed, and the water is forced up the delivery-pipe, the flow of water being regulated by the valve on the suction-pipe and by the valve on the steam-pipe.

A jet-pump constructed in this manner is very simple and inexpensive to make and repair. The materials for the pump can be very readily obtained and assembled, and the pump is not liable to get out of order.

What I claim is—

1. In a jet-pump, the combination, with a suction-pipe, of a junction-piece having a branch secured to the said suction-pipe, a short straight pipe secured to one end portion of the said junction-piece with its end projecting slightly crosswise over the said suction-pipe, a steam-jet pipe secured in the other end portion of the said junction-piece in line with the said short pipe, a second junction-piece secured to the other end of the said short pipe, an overflow-pipe provided with a valve and secured to the last said junction-piece in line with the said short pipe, and a delivery-pipe secured to a branch of the last said junction-piece.

2. In a jet-pump, the combination, with a suction-pipe, of a T junction-piece having its branch secured to the said suction-pipe, a short straight pipe screwed into one end portion of the said T-piece with its end projecting slightly over the said suction-pipe, a bush in the other end of the said T-piece, a longitudinally-adjustable steam-pipe screwed into the said bush, a second T junction-piece secured to the other end of the said short pipe, an overflow-pipe provided with a valve and secured to the last said T-piece in line with the said short pipe, and a delivery-pipe secured to the branch of the last said T-piece.

In testimony whereof I have affixed my signature in the presence of two witnesses.

EDMON W. KELLER.

Witnesses:

W. H. HITCHCOCK,

W. H. HENRY.