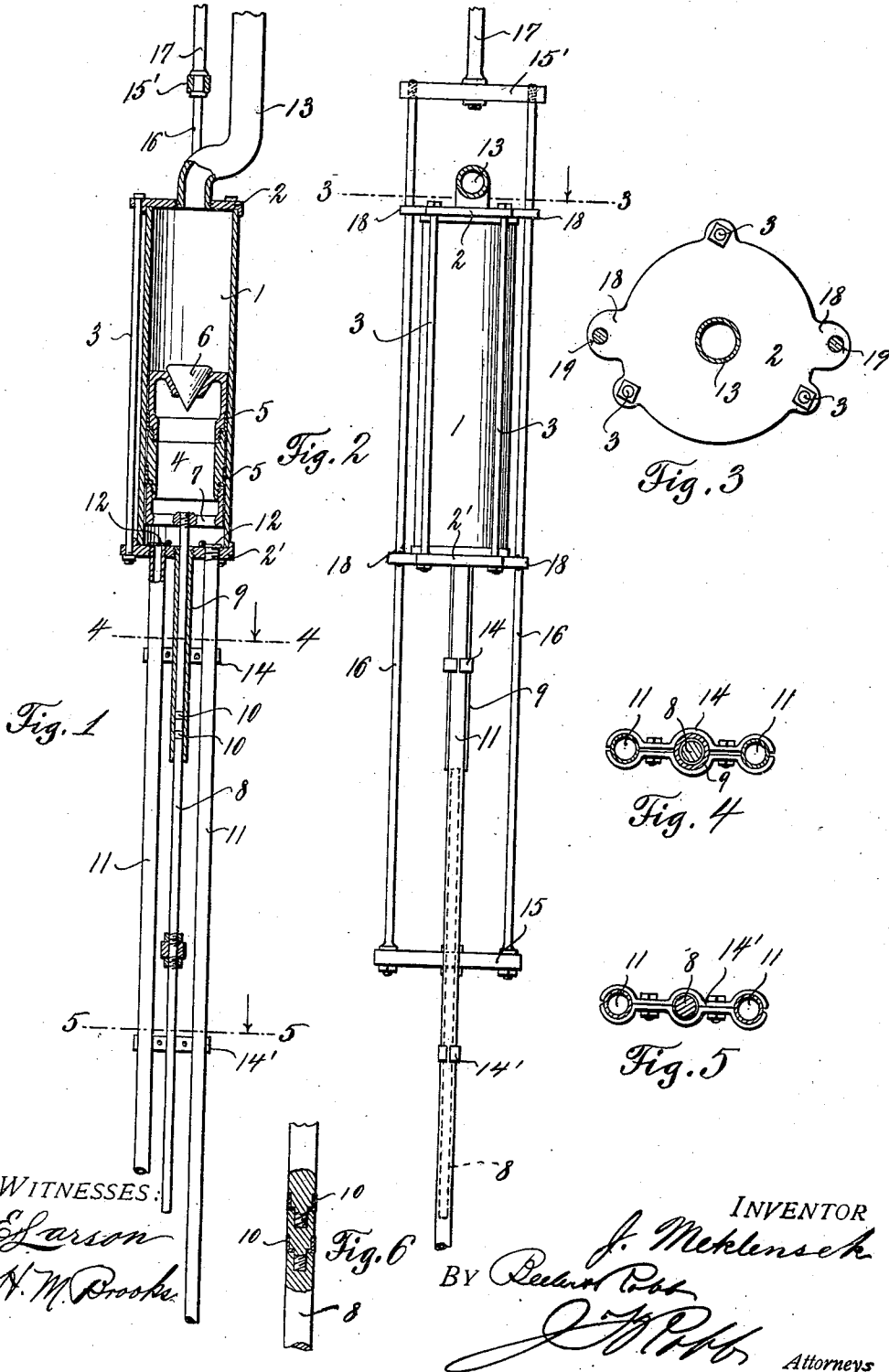


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PUMP.

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PUMP.

988,125.

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To all whom it may concern:

Be it known that I, JOSEPH MEKLESEK, a citizen of the United States, residing at Del Mar, in the county of San Diego and State of California, have invented certain new and useful Improvements in Pumps, of which the following is a specification.

This invention is primarily designed to construct a pump which is of a novel and durable character wherein the operating rods are adapted to run in guides provided on the cylinder of the pump for that purpose. By the construction herein set forth, the removal of the working parts of the pump is greatly facilitated, thereby making the same of a desirable nature.

For a full understanding of the present invention, reference is to be had to the following detail description and to the accompanying drawings, wherein:

Figure 1 is a vertical section disclosing the working parts of the cylinder of the pump; Fig. 2 is an elevation disclosing the operating rods or members in their operative positions; Fig. 3 is a view taken on line 3—3 of Fig. 2; Fig. 4 is a view taken on line 4—4 of Fig. 1; Fig. 5 is a view taken on line 5—5 of Fig. 1; and Fig. 6 is a fragmentary view of the piston rod.

In the drawings, 1 designates a cylinder provided with cylinder heads 2 and 2' which are retained on the cylinder body by means of the rods 3, as illustrated in the drawings. A piston 4 is adapted to reciprocate in the cylinder 1, said piston comprising a plurality of sections which are adapted to be threaded one within the other, and at the joining of each section is carried a cup-leather packing 5. The upper portion of the hollow piston 4 is provided with an inwardly and downwardly extending flange forming a conically shaped seat adapted to receive a similarly shaped valve 6. A spider 7 is provided across the lower extremity of the lower end of the piston to which is secured a piston rod 8 whereby the piston is reciprocated. A pipe or stuffing box member 9 is secured to the cylinder head 2' and extends downwardly therefrom in which the rod 8 is slidably mounted. A portion of the piston rod within the pipe or casing 9 is jointed as illustrated in Fig. 6 and at each joint is provided a cup-leather packing 10 whereby an air tight joint is insured when the pump is being operated.

A pair of inlet pipes 11 are carried by the

cylinder head 2', the former extending downwardly into the well for drawing the water therefrom. A valve 12 is provided at each inlet pipe in the cylinder to admit the water or liquid and prevent its escape through said pipes. After the water is drawn within the cylinder 1, it is discharged upon the upward stroke of the piston through the outlet pipe 13 carried by the cylinder head 2. A pair of braces or bracket members 14 and 14' are rigidly secured to the inlet pipes 11, the upper bracket 14 being also rigidly secured to the casing or pipe 9 while the lower bracket 14' forms a guide for the piston rod 8.

The piston rod 8 is rigidly carried by a cross bar 15, the latter being connected to a cross-head 15' positioned above the cylinder by a pair of cross-head rods 16. The upper cross-head 15' is secured to any operating means by a connecting rod 17, which will readily be understood. The cross-head rods 16 are adapted to be guided by oppositely extending projections or ears 18 formed on the cylinder heads, said ears being provided with openings 19.

From this description it will be observed that the construction is greatly simplified and of a more durable character than the structures upon the market. It will further be observed that all the parts of the pump may be disassembled so that should any part be rendered useless, the same may be easily replaced without removing the main construction. The brace 14, it will be observed, braces the spaced inlet pipes and holds them in rigid relation to the tubular stuffing box member 9, thus preventing any loose joints which would occur if the three members were not rigidly connected, one with another.

Having thus fully described my invention, what is claimed as new is:—

A pump comprising a cylinder having oppositely extending ears thereon in which are provided apertures, an outlet pipe and a plurality of spaced inlet pipes secured to said cylinder, a tubular stuffing box member carried by said cylinder intermediate said inlet pipes and extending downwardly therefrom, a piston reciprocatingly mounted in said cylinder, a piston rod adapted to operate in said stuffing box member, said rod portion within said member being jointed and carrying cup-leather packings, a plurality of cross-heads adapted to operate said piston

rod, a plurality of cross-head rods connect-
ing said cross-heads and adapted to operate
in said apertures, a bracket member rigidly
bracing said inlet pipes and tubular stuffing
5 box member, and a second bracket member
rigidly carried by said inlet pipes to form
a guide for said piston rod, as set forth.

In testimony whereof I affix my signature
in presence of two witnesses.

JOSEPH MEKLENSEK.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
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