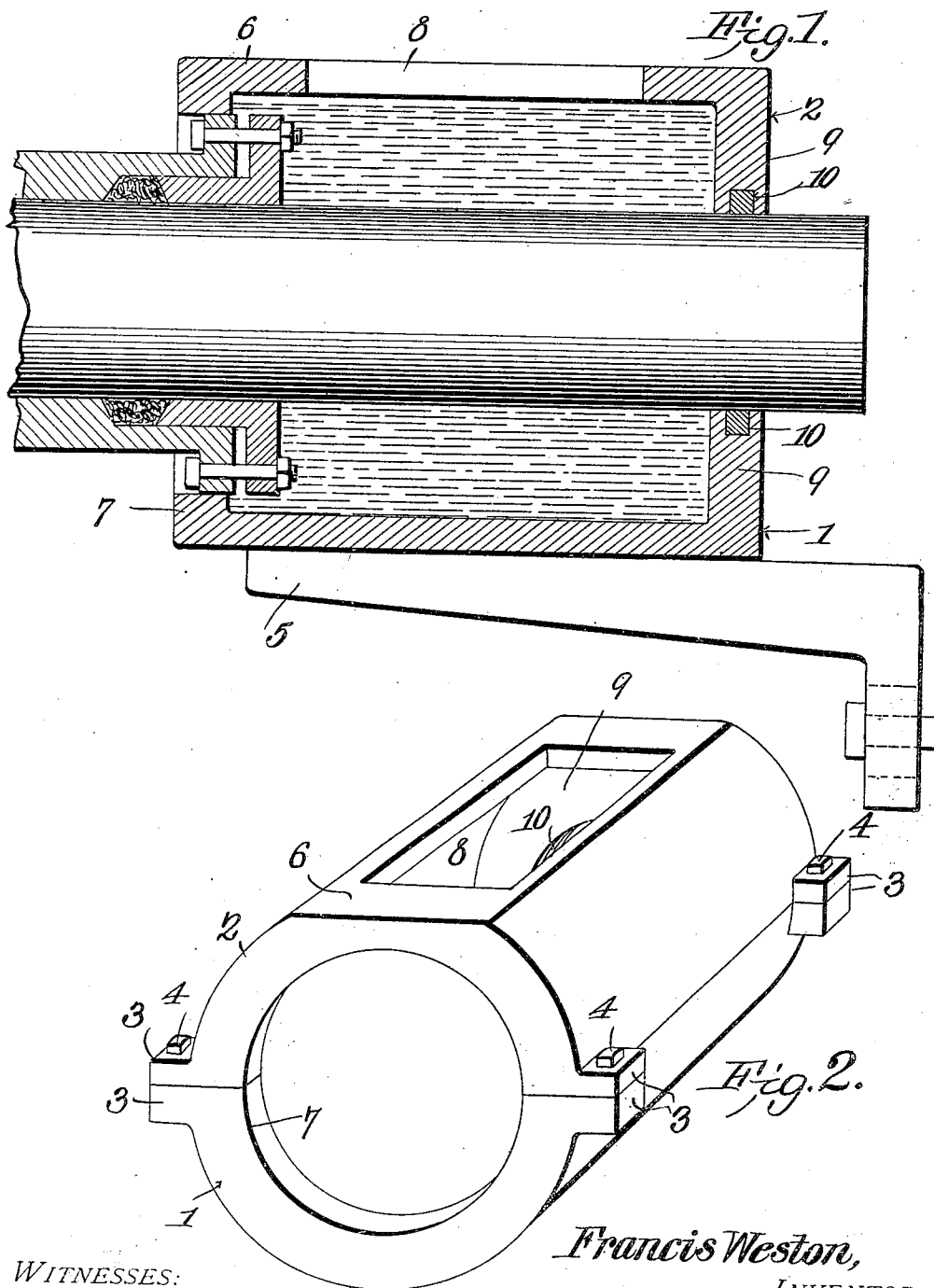


No. 838,599.

PATENTED DEC. 18, 1906.

F. WESTON.
WATER BOX.

APPLICATION FILED JUNE 22, 1906.



WITNESSES:

E. H. Stewart
E. H. Stewart

Francis Weston,
INVENTOR.

By

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ATTORNEYS

UNITED STATES PATENT OFFICE.

FRANCIS WESTON, OF NEWBERRY, FLORIDA.

WATER-BOX.

No. 838,599.

Specification of Letters Patent.

Patented Dec. 18, 1906.

Application filed June 22, 1906. Serial No. 322,937.

To all whom it may concern:

Be it known that I, FRANCIS WESTON, a citizen of the United States, residing at Newberry, in the county of Alachua and State of Florida, have invented a new and useful Water-Box, of which the following is a specification.

This invention has relation to water-boxes; and it consists in the novel construction and arrangement of its parts, as hereinafter shown and described.

The object of the invention is to provide a box adapted to be applied to the piston-shaft of centrifugal pumps and the like and which is adapted to retain water in such way that the possibility of air passing into the pump through the stuffing-box thereof is avoided.

In the accompanying drawings, Figure 1 is a longitudinal sectional view of the box applied to a shaft. Fig. 2 is a perspective view of the box.

The box is adapted to be applied to the end of the shaft of the pump on the outer side of the stuffing-box thereof. The said box consists of two members 1 and 2, which are provided with the laterally-extending flanges 3 3, through which suitable bolts 4 4 are passed for securing the said members together.

The box is supported by means of a brace or bracket 5, the lower and back edge of which is suitably attached to the frame of the pump, and the member 1 rests upon the upper portion of said brace or bracket.

In a transverse direction the general contour of the exterior and interior of the box is circular. However, the middle portion of the member 2 is flattened, as at 6. The inner ends of the members 1 and 2 are provided with the flange 7, which when the parts are assembled is annular or continuous and is adapted to receive and fit closely about the outer flange on the hub of the pump, the space between the inner walls of said flange constituting an opening adapted to receive the said hub. The flattened por-

tion 6 is provided with an opening 8, which is located at the top of the box when the parts are assembled. The outer ends of the members 1 and 2 are provided with flanges 9, which when the parts are assembled are annular and are adapted to receive the shafts of the pump. The flanges 9 9 are provided in their inner edges with the recesses 10, which receive packing that comes in contact with the periphery of the revolving pump-shaft. As the shaft of the pump is less in diameter than the diameter of the hub the diameter of the opening at the outer end of the water-box is less than the diameter of the opening at the inner end thereof.

It is obvious that when the parts are assembled upon the pump and the box is filled with water, which is introduced through the opening 8, a cushion or packing of water is maintained about the shaft and shaft-bearings of the pump, and consequently the possibility of air passing through said pump-bearing and the stuffing-box thereof is positively prevented. The packing located in the recess 10 at the outer end of the water-box prevents the water from escaping from the box at the shaft-receiving end thereof.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A box adapted to be applied to a shaft and a bearing, said box comprising two members which are fitted together longitudinally of the shaft, one of said members having an opening, one end of the box fitting snugly about the shaft and having a channel, packing located in said channel and being in contact with the shaft, the other end of the box fitting snugly about the bearing.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

FRANCIS WESTON.

Witnesses:

ALICE BENTLEY WESTON,
IRA J. CARTER.