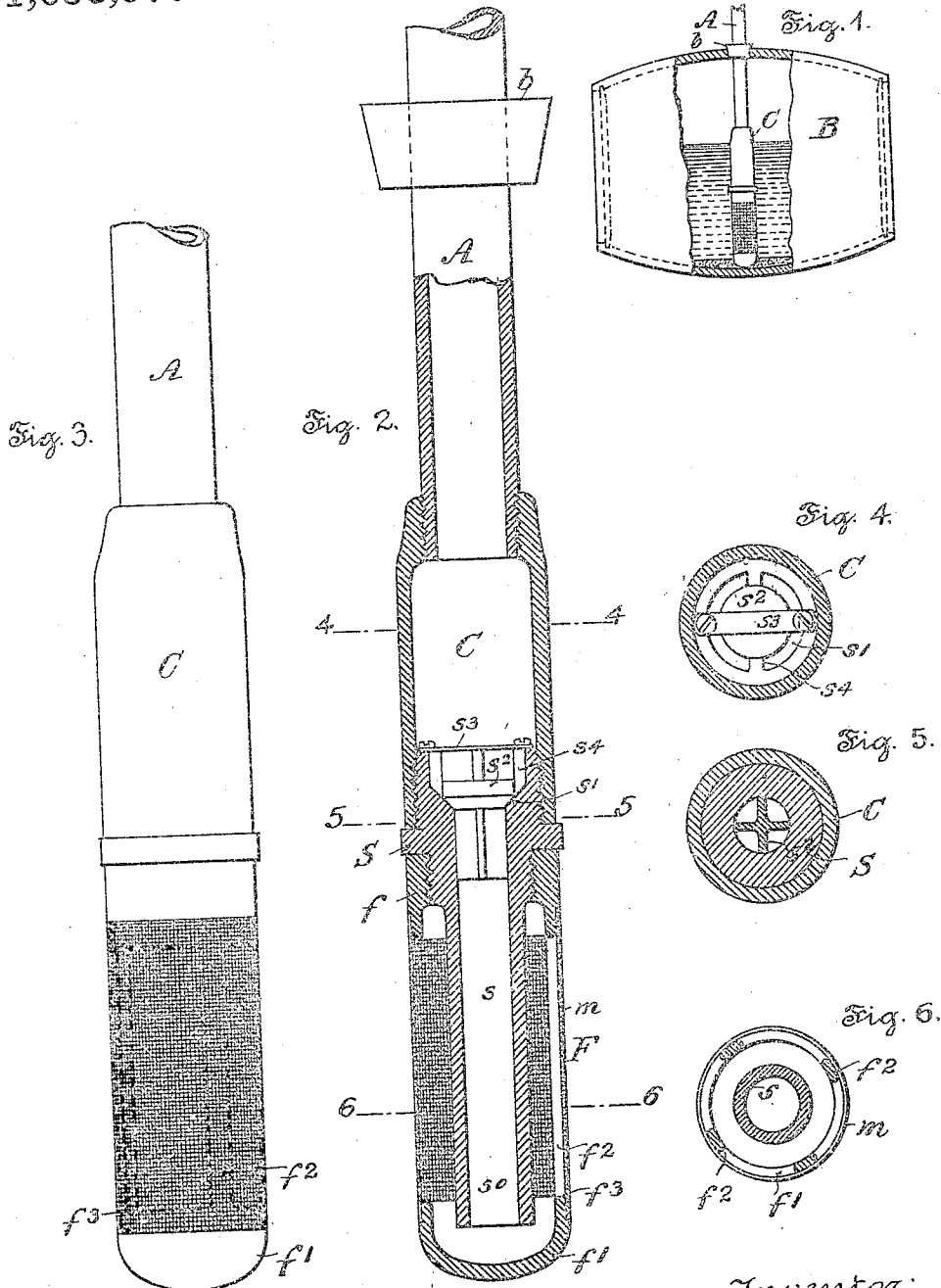


H. L. DARWOOD.
STRAINER FOR SUCTION PUMPS.
APPLICATION FILED SEPT. 5, 1912.

Patented Feb. 25, 1913.

1,053,975.



Witnesses:
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UNITED STATES PATENT OFFICE.

HENRY L. DARWOOD, OF PHILADELPHIA, PENNSYLVANIA

STRAINER FOR SUCTION-PUMPS.

1,068,975.

Specification of Letters Patent.

Patented Feb. 25, 1913.

Application filed September 5, 1912. Serial No. 718,723.

To all whom it may concern:

Be it known that I, HENRY L. DARWOOD, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented new and useful Improvements in Strainers for Suction-Pumps, of which the following is a specification.

My invention relates to strainers and more especially to such which are attached to suction pumps, and which have for their object to exclude foreign matter from entering the suction pipe; many devices for this purpose have been designed and many strainers are patented and while they are to a certain degree efficient in keeping out the coarser foreign material, as for instance on well pumps, they are totally useless when used in wine and liquor barrels to pump the contents therefrom directly for use.

My improved strainer is to be used in connection with the pump shown and described in the U. S. Patent #928,081 granted to me on or about July 13, 1908 which is especially designed to pump liquors from a barrel, but as the liquors contained in a barrel contain more or less foreign matter, whisky barrels for instance have always a settlement of finely divided charcoal and this or other matter settling at the bottom of the barrel is always disturbed, enters the pump and is delivered by the same with the liquor; to prevent this a strainer forming the subject of this application is provided.

My invention will be more fully understood taken in connection with the accompanying drawing forming part hereof, and in which—

Figure 1, is a sectional elevation showing the strainer in application to a barrel. Fig. 2, is a central vertical section through the strainer. Fig. 3, is an elevation of the strainer and Figs. 4, 5 and 6 are sectional views on lines 4—4, 5—5 and 6—6 respectively.

Referring now to the drawing for a further description of my invention, A is the suction pipe leading from a pump not shown, B is a barrel and b is a bung slipped over the pipe A and fitting the bung-hole of the barrel.

C is a pipe connecting the suction pipe A with the strainer S, which consists of the inner tubular stock s, the outer casing F and the finely perforated mantle m. The stock s

having the pipe extension s^o is screwed on the pipe C and is provided with a valve seat sⁱ and check valve s^v.

s^o is a back stop for the valve to prevent the latter leaving its guideways sⁱ.

The casing F consists of an upper ring f and a lower cup-shaped extremity fⁱ which are held together by the stays f^s and this casing may be cast in one piece or otherwise constructed. The upper ring f and lower extremity fⁱ are recessed to receive the finely perforated mantle m or wire netting having a very fine mesh. This casing F is screwed on to the stock S as shown in Fig. 2, and these members are so proportioned, that the upper edge f^s of the cup-shaped extremity fⁱ is above the lower end of the pipe s^o of the stock S, for the purpose of preventing the charcoal or other settlement in the bottom of the barrel to be drawn by the action of the pump into the stock S and pipe A.

Having thus described the nature and objects of my invention, what I claim as new and desire to secure by Letters Patent is:

1. A strainer for suction pumps comprising a stock, a check valve seated therein, means for attaching this stock to a suction pipe, in combination with an outer casing comprising an upper ring and a cup-shaped lower extremity held together by stays, means for holding the casing to the stock and a perforated mantle surrounding the outer casing, substantially as and for the purposes set forth.

2. A strainer for suction pumps comprising a stock, means for attaching it to a suction pipe, in combination with an outer casing comprising an upper ring adapted to be held by the stock, a lower cup-shaped extremity, stays between the latter and said ring, the upper edge of the cup-shaped extremity being located at a higher level than the lower end of the tubular stock, and a finely perforated mantle surrounding said casing, substantially as and for the purposes set forth.

In witness whereof I have hereunto set my hand in the presence of two subscribing witnesses.

HENRY L. DARWOOD.

Witnesses:

J. N. FORT, JR.,
HERMANN BORRMANN.