

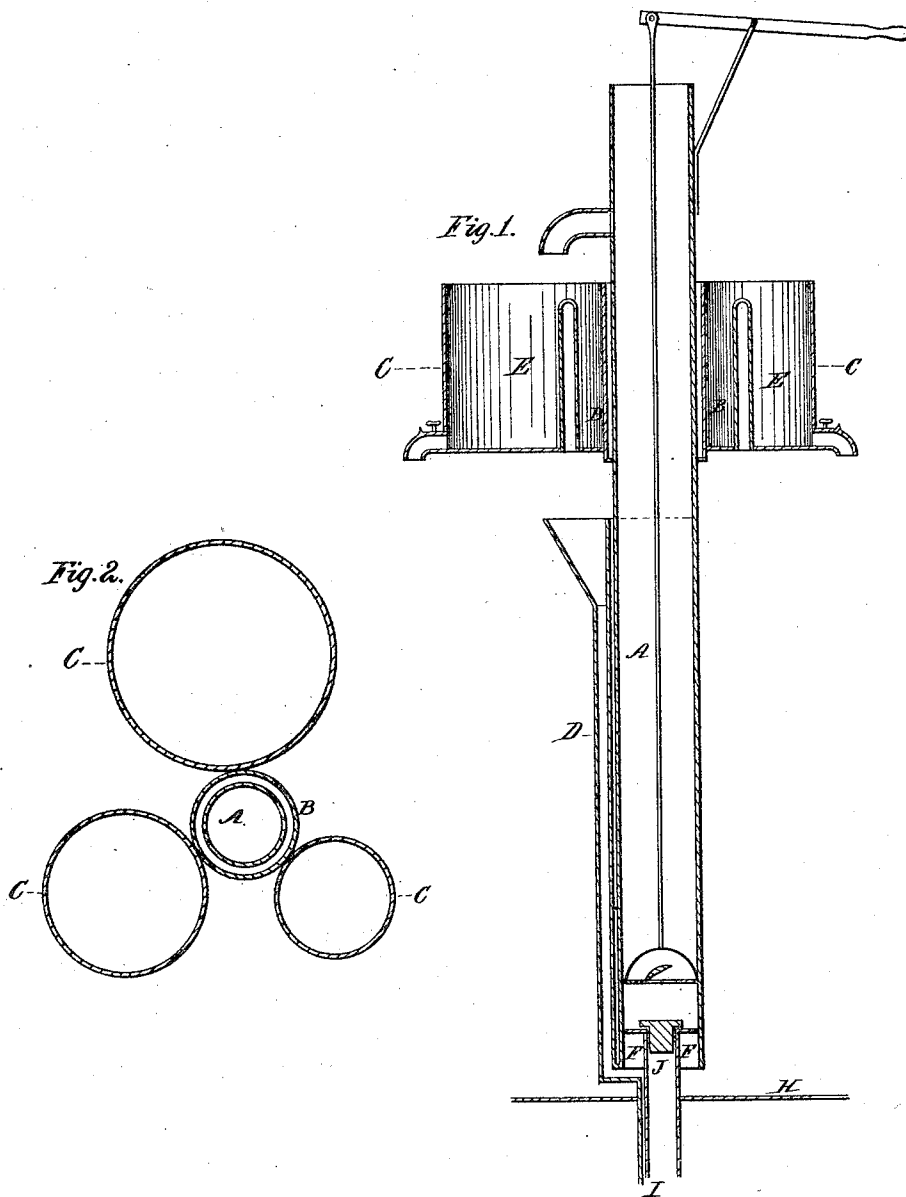
(No Model.)

M. H. RICHARDS.

ADJUSTABLE PUMPING AND MEASURING MACHINE.

No. 286,070.

Patented Oct. 2, 1883.



Witnesses:

W. C. Jordanston.
Fred A. Church.

Inventor:

Matthew H. Richards

by

J. E. Steele

his Attorney.

UNITED STATES PATENT OFFICE.

MATTHEW H. RICHARDS, OF SPENCER, IOWA.

ADJUSTABLE PUMPING AND MEASURING MACHINE.

SPECIFICATION forming part of Letters Patent No. 286,070, dated October 2, 1883.

Application filed June 8, 1883. (No model.)

To all whom it may concern:

Be it known that I, MATTHEW H. RICHARDS, a citizen of the United States, residing at Spencer, in the county of Clay and State of Iowa, have invented a machine to be used by retail dealers and others in conveying and measuring oils, vinegars, and other liquids, said machine to be known and designated as "Richards's Adjustable Pumping and Measuring Machine."

The following is a description of the invention, and such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the drawings.

The object of my invention is to facilitate the conveyance of oils and other liquids from barrels and casks to other vessels, and at the same time measure the same, if necessary, and to enable retail dealers in oils and other liquids to handle the same with convenience. This I accomplish by attaching the measures, consisting of one gallon, one-half gallon, and one-fourth gallon, all of which, being fastened to a revolving band encircling the stock of the pump, may in turn be revolved under the spout of the pump.

Figure 1 is a vertical section of the entire machine. Fig. 2 is a horizontal section through the measures and pump-stock.

Similar letters refer to similar parts in both figures.

Letter A represents the pump-stock.

Letter B represents the revolving band to which the measures are attached. Letter C the measures, which are attached to the revolving band in such a manner that they may be removed at will.

Letter E represents the surplus-tube, opening into the measure about half an inch below the top thereof, to prevent the overflow of the liquid, and so situated on each measure that when such measure is in a position to be filled from the spout of the pump the surplus will flow into the waste-tube D.

D is the waste-tube, with a funnel, attached and fastened to the pump-stock.

I represents the small tube which is inserted into the barrel or cask, and for the purpose of allowing the surplus or waste to flow back into the barrel or cask, is allowed to extend upward into the pump-stock about one inch above the head of the barrel or cask. On the top of the

tube I rests the valve J, at which level the tube of the pump-stock is closed, thereby creating the chamber represented by F, through which chamber the waste or surplus liquid flows back into the cask, passing down between the tube I and the collar G.

Letter H represents the plate attached to the bottom of the pump-stock, by which the machine may be fastened to the barrel or cask.

The leading characteristics of the machine are portability, being easily removed from one barrel or cask to another, its weight not exceeding ten pounds.

It is designed that the pump shall be inserted in the head of the barrel or cask standing in a vertical position, the pump being placed on the opposite side of the barrel from the operator, the head of the barrel or cask serving as a platform or table on which to rest or place the vessel while being filled from the revolving measures, the bottoms of said measures to be about fifteen inches above the top of the barrel.

It is also designed that vessels of such large size as to not admit of being placed on the head of the barrel may be filled by means of a rubber hose attached to the spout of the pump or to the faucet on the measure.

For the convenience of retail dealers having cellars in which oils are kept, the tube I may be extended, that the oils and other liquids may be drawn from the cask in the cellar to the upper room. For the convenience of retail dealers handling two or more grades of oil, two or more pumps may be used with one set of the adjustable measures.

I claim as my invention, and desire to secure by Letters Patent, the following:

1. The combination, in adjustable pumping and measuring machines, of a revolving annular band, B, encircling the pump-stock, with slots equidistant, into which the measures C are adjusted.

2. In an adjustable pumping and measuring machine, the combination of revolving measures C, having surplus-tubes E, and also a waste-tube, D, substantially as set forth in specification.

MATTHEW H. RICHARDS.

Witnesses:

CHARLES E. BLONDEL,
ALFRED C. WALDRON.