

No. 850,528.

PATENTED APR. 16, 1907.

F. A. GEHRMAN.
SETTING GAGE FOR CREAM SEPARATORS.
APPLICATION FILED MAY 9, 1906.

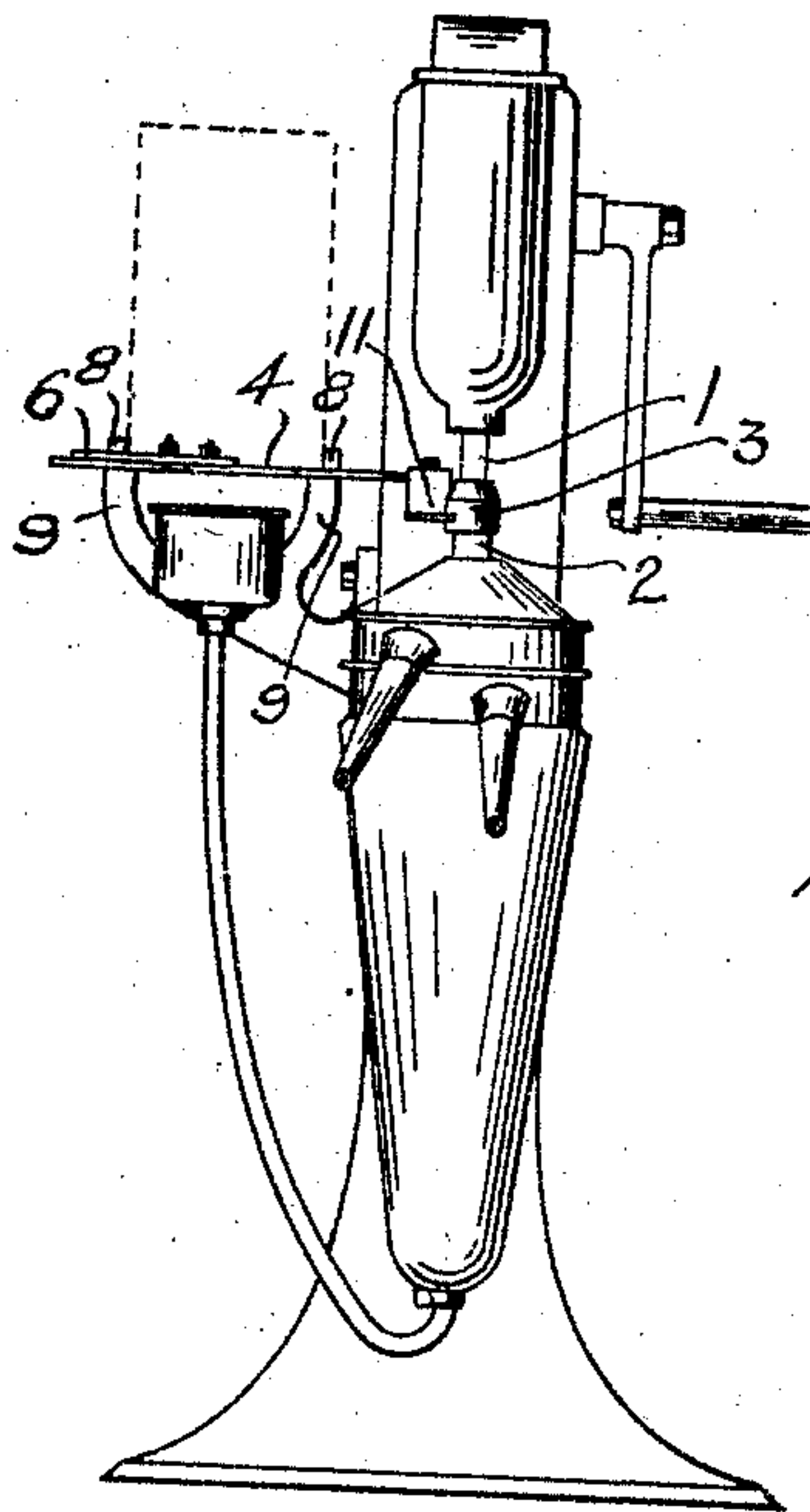


Fig. 1.

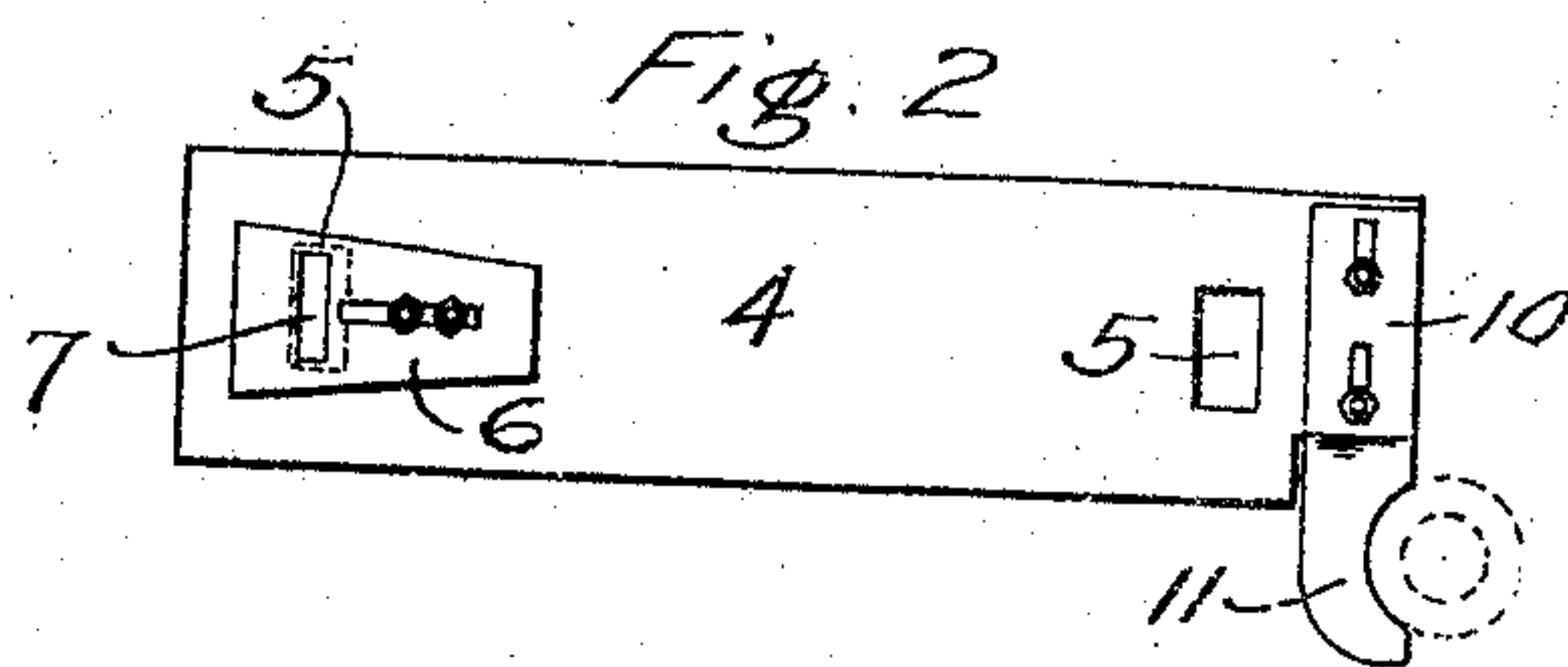


Fig. 2.

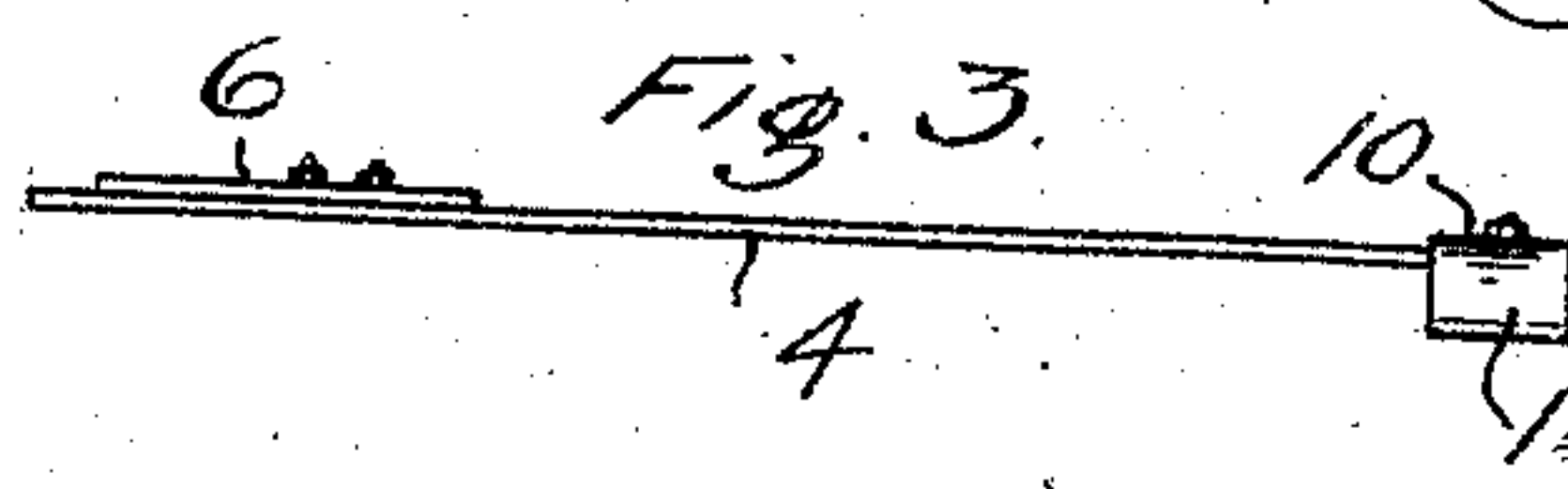


Fig. 3.

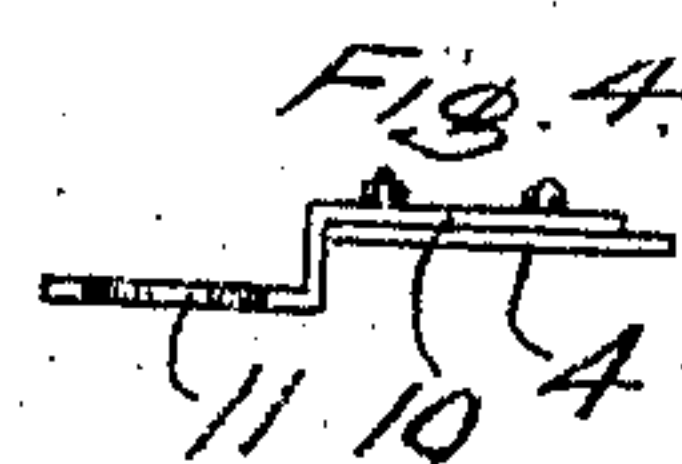


Fig. 4.

Witnesses

M. A. Van House
Paul V. Little

Inventor

Frank A. Gehrman

By

J. J. Elliott

Attorney

UNITED STATES PATENT OFFICE.

FRANK A. GEHRMAN, OF FRANCES, WASHINGTON.

SETTING-GAGE FOR CREAM-SEPARATORS.

No. 850,528.

Specification of Letters Patent.

Patented April 16, 1907.

Application filed May 9, 1906. Serial No. 316,018.

To all whom it may concern:

Be it known that I, FRANK A. GEHRMAN, a citizen of the United States of America, residing at Frances, in the county of Pacific and State of Washington, have invented certain new and useful Improvements in Setting-Gages for Cream-Separators, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to gages for accurately joining together the parts of a cream-separator, and is especially adapted for use with the separator known as the "Sharpless" cream-separator.

My invention is illustrated in the accompanying drawings, in which—

Figure 1 is a front view of a separator with my gage in place thereon. Fig. 2 is a plan of my improved gage. Fig. 3 is a front elevation thereof, and Fig. 4 is an end elevation thereof.

Similar numerals of reference refer to similar parts throughout the several views.

In a separator of the class for which this invention is particularly designed the spindle 1 rotates at a very high rate of speed and is joined to the rotating separator-tube 2 by a hollow conical nut 3. These parts must be removed for cleaning every time the machine is used, and as a result of the frequent screwing of the nut 3 it becomes slightly worn after several months use. When the nut becomes worn, it is very difficult to get the spindle 1 and the tube 2 absolutely coaxial, and if they are at all out of alinement the tube 2 will vibrate violently, especially since the rate of rotation is very high. In order to overcome this difficulty, I have devised the following gage, by means of which the parts may be quickly and accurately set up.

This gage consists of a horizontal plate of metal 4, having two slots 5 near its ends, one or both of said slots being covered by an adjustable plate 6, having a smaller slot 7 therein, said slot 7 being adapted to fit over the lugs 8 on the arms 9, which are secured to the side of the separator and which sup-

port the removable milk-tank. A cross-plate 10 is adjustably secured to one end of the plate 4 and extends out sidewise therefrom, said extension 11 being offset downward and having a curved edge adapted to fit around the nut 3.

The gage is operated as follows: The milk-tank not yet having been placed in position on the arms 9, the plate 4 is placed thereon, the lugs 8 passing through the slots in the plate 4 and in the adjusting-plates 6. Then the nut 3 is loosely secured to the tube 2 and the spindle 1 is slowly rotated. When the plate 4 is in the position described, the extension 11 of the cross-plate 10 fits around the edge of the nut 3 if it is in its proper position. As the nut 3 is then rotated slowly it may be seen whether it is exactly in alinement with the spindle 1 and the tube 2, and if it is not it can be quickly adjusted and the parts tightened up. Then the gage is removed and the milk-tank is placed in position on the arms 9 and the separation is ready for use.

Having described my invention, what I claim is—

1. A separator-setting-up gage, comprising a plate adapted to be loosely supported on the separator, a plate adjustably secured thereto and having a slot adapted to receive a lug on the separator to hold said first plate in position, and an offset cross-plate secured to said first plate and projecting adjacent to the rotating spindle.

2. A separator-setting-up gage, comprising a plate adapted to be loosely supported on the separator, a plate adjustably secured thereto and having a slot adapted to receive a lug on the separator to hold said first plate in position, and an offset cross-plate adjustably secured to said first plate and projecting adjacent to the rotating spindle.

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

FRANK A. GEHRMAN.

Witnesses:

P. L. STANLEY,
J. F. KATRINER.