

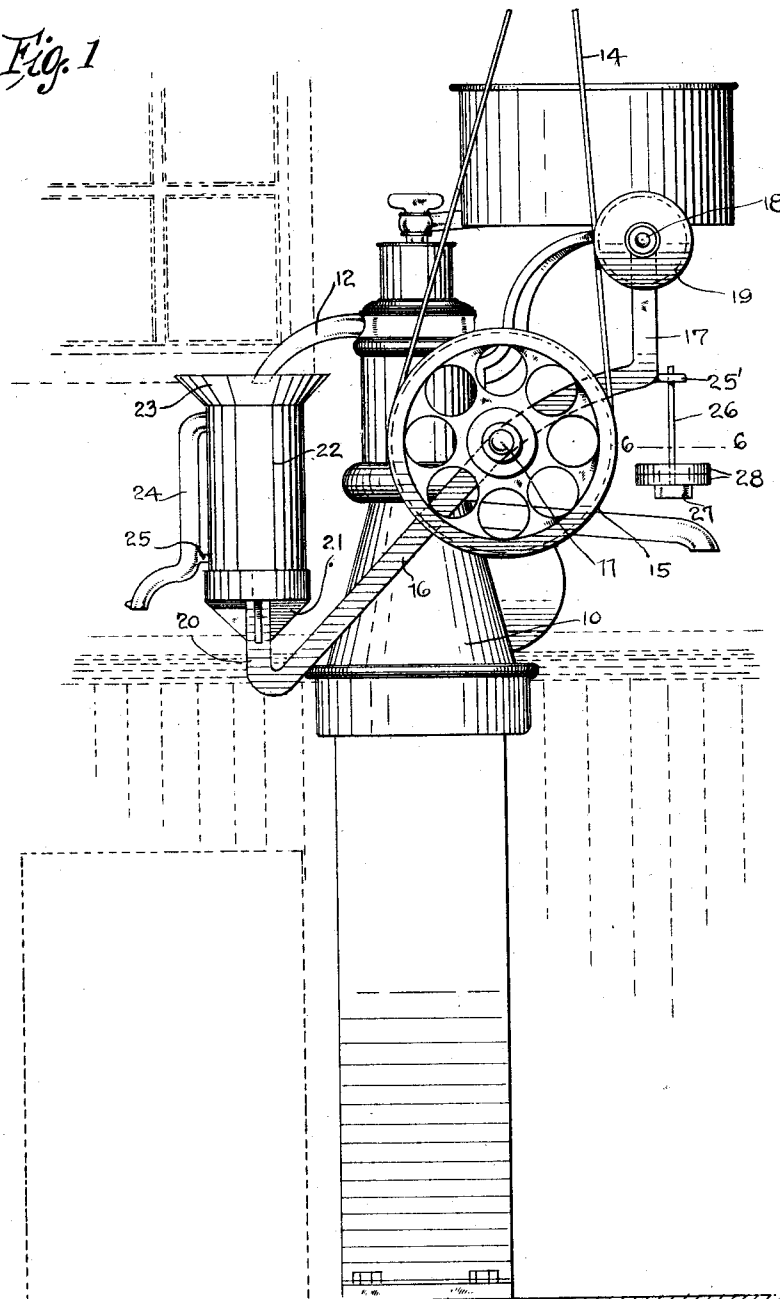
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APPLICATION FILED OCT. 5, 1912.

1,055,892.

Patented Mar. 11, 1913.

3 SHEETS—SHEET 1.

Fig. 1



WITNESSES

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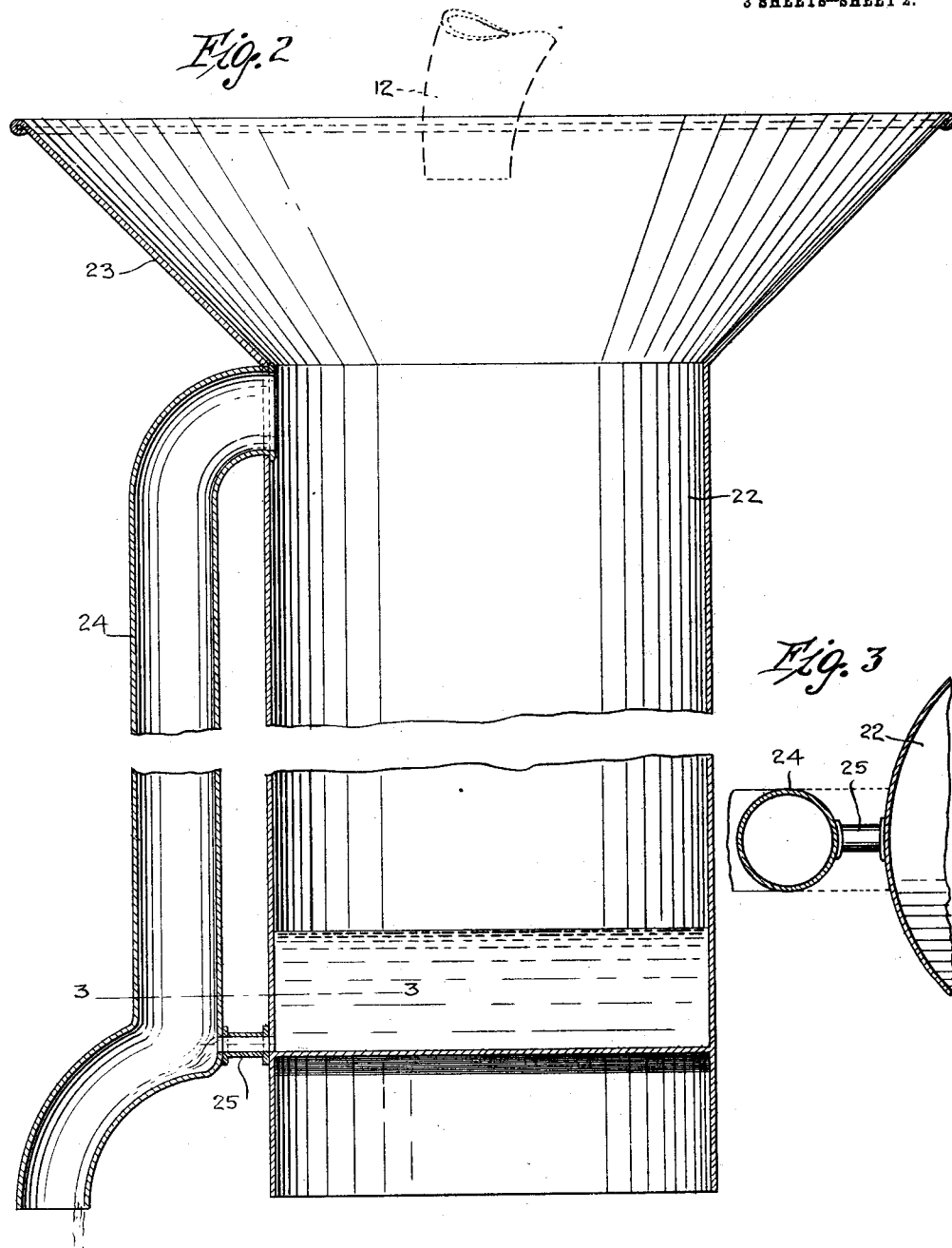
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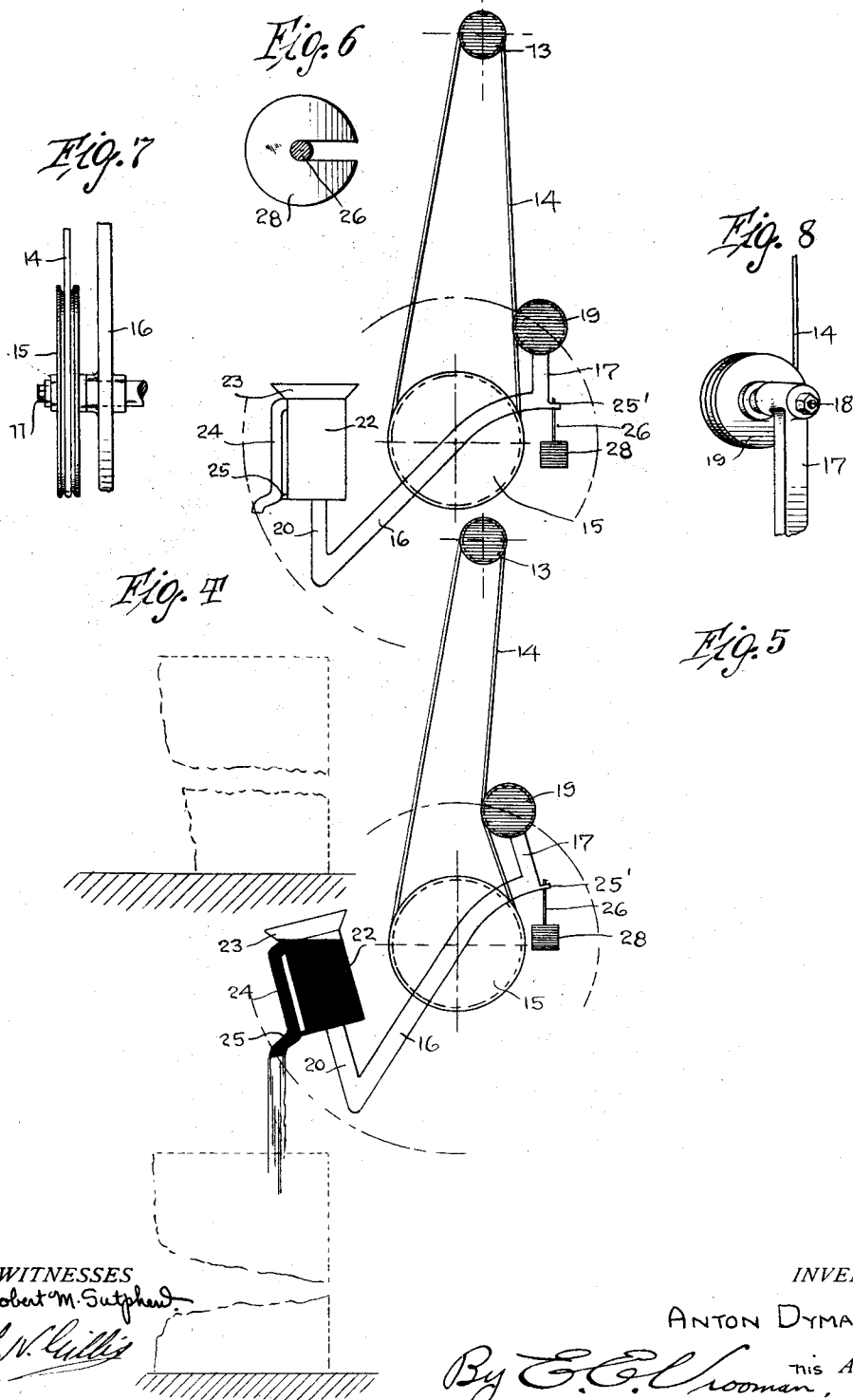
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To all whom it may concern:

Be it known that I, ANTON DYMACK, citizen of the United States, residing at Loup City, in the county of Sherman and State of Nebraska, have invented certain new and useful Improvements in Cream-Separators, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to cream separators and has special reference to an attachment for regulating the running of such separators.

The principal object of this invention is to provide an attachment for cream separators which will operate to tighten the driving belt after the line shaft is in motion and which will enable the separator to be left, the attachment being so arranged as to automatically shut down the movement when the milk is all out of the separator.

With the above and other objects in view, as will be hereinafter apparent, the invention consists in general in such novel details of construction and combinations of parts hereinafter fully described, illustrated in the accompanying drawings, and specifically claimed.

In the accompanying drawings, like characters of reference indicate like parts in the several views, and Figure 1 is a side elevation of a cream separator having the improved attachment applied thereto. Fig. 2 is an enlarged detail section through the tank of the attachment. Fig. 3 is a partial transverse section on the line 3—3 of Fig. 2. Fig. 4 is a diagrammatic view showing the position of the attachment before the separator is started. Fig. 5 is a similar view after the starting of the separator. Fig. 6 is a detail view on the line 6—6 of Fig. 1. Fig. 7 is a detail view of a portion of the separator shaft showing the device applied thereto. Fig. 8 is a perspective view of the belt tightener wheel or idler.

In carrying out the object of this invention there is shown in the present embodiment a cream separator 10 of ordinary type and this separator is provided with a shaft 11. The usual spout 12 extends from the body of the separator which is driven from a line pulley 13, by means of a belt 14 which passes in turn around a pulley 15 on the shaft 11. Pivottally mounted on the shaft 11 is a lever 16, which is provided with an upturned end 17 carrying a stub shaft 18

having a double flanged idler 19 mounted thereon, the parts being so arranged that the idler may either lie in the position shown in Fig. 4 or the position shown in Fig. 5, thus enabling the belt to be tightened and preventing the slipping of the same about the pulley 15 as would be the case were the idler not forced inward against the belt. The lower end of the lever 16 is bent upward as at 20 and provided with diverging supporting arms 21, which carry a receptacle 22 having a flaring top 23, which is arranged beneath the mouth of the spout 12. Extending downward from a point near the top of the receptacle 22 is an outlet pipe 24 and this pipe communicates by means of a similar pipe or bleeder 25 with the receptacle near the bottom thereof.

In using the device the line shaft is started in the usual way common in such devices and when the separator is filled ready for use, the receptacle 22 is depressed by hand so as to tighten the belt 14. This starts the separator in motion and by holding the receptacle 22 depressed the milk will soon flow through the spout 12 into the receptacle 22. When this latter has been filled up to the opening of the pipe 24, the milk will flow out of that pipe and may be received in a suitable receptacle placed beneath the outlet end of said pipe. When all of the milk has passed out from the separator 10 the bleeder 25 will gradually allow the receptacle 22 to empty, the purpose of this bleeder being of smaller size is to prevent the milk from running out too fast while the pipe 24 of larger size prevents an overflow. When the receptacle 22 has been emptied the lever 16 will be moved to the position shown in Fig. 1 and the belt then released. In order to assist in this movement there is suspended from a projection 25' on the lever 16 a rod 26 carrying a head 27 on its lower end. On this head 27 are piled a series of slotted weights 28, the weights being thus slotted in order that they may be removed or added to as desired.

It has thus been provided a simple and efficient device of the kind described and for the purpose specified.

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

1. The combination with a cream separator having a drive belt; of means controlled by the flow of milk from the separator to govern the tension of the drive belt.

2. The combination with a cream separator having a drive belt, said separator being provided with a shaft, of a lever pivotally mounted on said shaft, a belt tightener
5 carried by said lever, and a receptacle carried by the other end of said lever adapted to receive milk flowing from the separator.

3. The combination with a cream separator having a drive belt, said separator being
10 provided with a shaft, of a lever pivotally mounted on said shaft, a belt tightener carried by said lever, a receptacle carried by

the other end of said lever adapted to receive milk flowing from the separator; an overflow pipe leading from the upper end of 15 said receptacle, and a bleeder connecting the lower end of said receptacle and the overflow pipe.

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

ANTON DYMACK.

Witnesses:

C. C. CARLSEN,

W. S. ROOT.

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