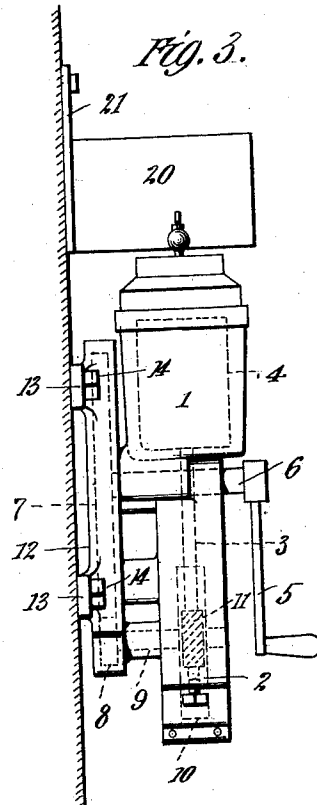
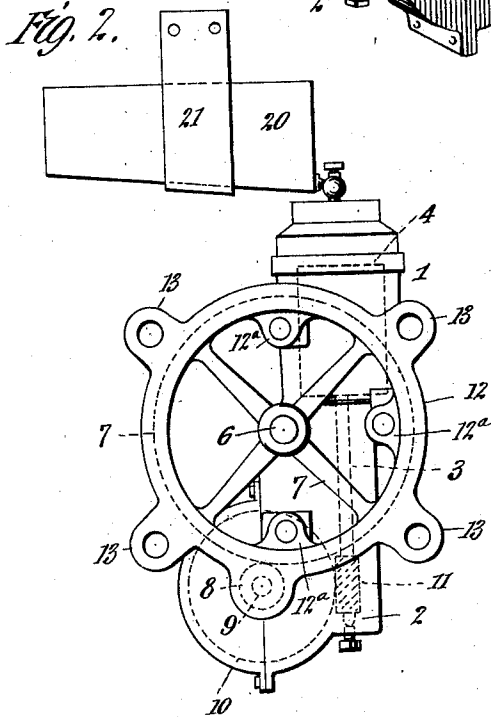
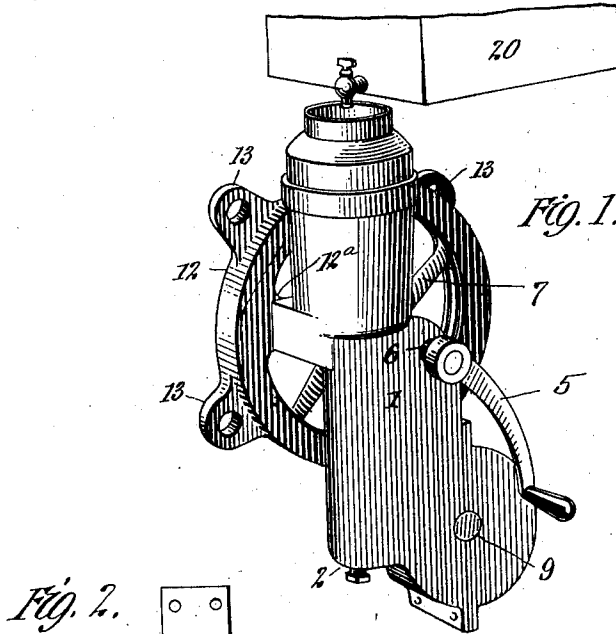


A. H. REID.
MACHINE SUPPORT.
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Patented July 19, 1910

964,939.



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UNITED STATES PATENT OFFICE.

ALBAN H. REID, OF PHILADELPHIA, PENNSYLVANIA.

MACHINE-SUPPORT.

964,939.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALBAN H. REID, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Machine-Supports, of which the following is a specification, reference being had therein to the accompanying drawing.

10 In the use of cream separators, in which the frame of the machine is supported by legs or standards adapted to rest on the floor, objections exist by reason of the difficulty and expense in packing and shipping, the
15 waste space in the creamery occupied by the machine, and the inability to effect a thorough cleansing of the floor of the room on account of the obstructions offered by the legs.

20 The aim of my invention is to avoid these objectionable features, and the invention consists in providing the machine frame with a bracket or supporting means adapted to be attached to the wall of the room or
25 other fixed part thereof, and which will serve to sustain the machine at a suitable elevation for its proper operation. By this means the floor space beneath the frame will be free and unobstructed, so that it may be
30 thoroughly and effectually cleansed; and further in shipping or transporting the machines, the parts may be boxed in compact form and may be shipped at considerably less expense by reason of the saving in
35 weight.

My invention is susceptible of various forms of embodiment, the drawings illustrating, by example, a form which I have found to answer in a satisfactory manner
40 the results to be attained.

In the accompanying drawings:—Figure 1 is a perspective view of a centrifugal separator having my invention applied thereto. Fig. 2 is a rear view of the same. Fig. 3 is
45 an end view showing the machine attached by its supporting bracket to the wall.

Referring to the drawings:—1 represents a casing or frame, in which the operative parts of the machine are mounted, and by
50 which they are sustained. This frame may be of different forms and constructions and so also the operating mechanism which it supports. In the present instance, the frame consists of a casting formed at its lower end
55 with a stepped bearing 2, supporting a vertical driving spindle 3, carrying at its up-

per end a rotary separating bowl 4, the spindle being driven by means of a hand crank 5, fixed to a shaft 6, mounted in bearings in the frame and carrying a large gear
60 wheel 7, meshing with a small pinion 8 on a shaft 9, which latter carries a worm wheel 10, driving a worm 11 on the spindle. The large gear wheel, as is customary in machines of this type, is housed by a wheel-
65 guard in the form of a circular casting 12. This guard is firmly fastened to the frame of the machine by means of lugs 12^a on its inner side formed with openings to receive fastening bolts which are screwed into the
70 machine frame.

In applying my invention to a machine of this general type and construction, I propose to utilize this wheel-guard as a means
75 for attaching the machine to the wall, so that the guard will under these conditions perform a double function in protecting and housing the gear-wheel and also in acting as a bracket or supporting means for
80 fastening the machine to the wall. For this purpose, the guard is provided with a number of outwardly extending arms or brackets 13, formed with openings to receive bolts
85 14 for securing it firmly to the wall, as shown in Fig. 3. It will be necessary, of course, in order to adapt the guard to perform its function as a support for the machine frame, that it be made sufficiently
90 heavy and stout, and that the lugs or arms and the bolts by which it is attached to the machine frame and to the wall be also correspondingly strong and heavy.

With the machine supported in the manner and by the means shown, the space beneath the frame is wholly free and unob-
95 structed, but comparatively small space is occupied by the machine, and the latter as a whole is compact. As a result, the room in which the machine is operated may be kept thoroughly clean and sanitary, which
100 is a great consideration in creameries; and further, the machine may be shipped in compact form and at far less expense than if provided with the usual cumbersome sustaining legs.
105

As shown in the accompanying drawings, the milk fed to the machine is supplied by means of a tank 20 having at one side a bracket 21 by which it may be secured to
110 the wall in such relation to the machine that the milk from the reservoir may be conveniently introduced.

Having thus described my invention, what I claim is:—

1. In a centrifugal separator, the combination of a frame, operating mechanism
5 mounted therein, a gear wheel to operate said mechanism, and a wheel-guard fixed to the frame and inclosing the gear wheel, and provided with means to adapt it to be fastened to a wall or support; whereby the
10 wheel-guard subserves the double function of housing the wheel and sustaining the machine above the floor.

2. In a centrifugal separator, the combination of a frame, operating mechanism

mounted therein, a gear wheel to operate the
15 mechanism, a wheel-guard fixed to the side of the frame and inclosing the gear wheel, and having lugs projecting outwardly and provided with openings to adapt the guard to be fastened to a wall or support and
20 thereby sustain the frame.

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

ALBAN H. REID.

Witnesses:

WILLIAM E. ANDERSON,
FRANK S. TANEY.