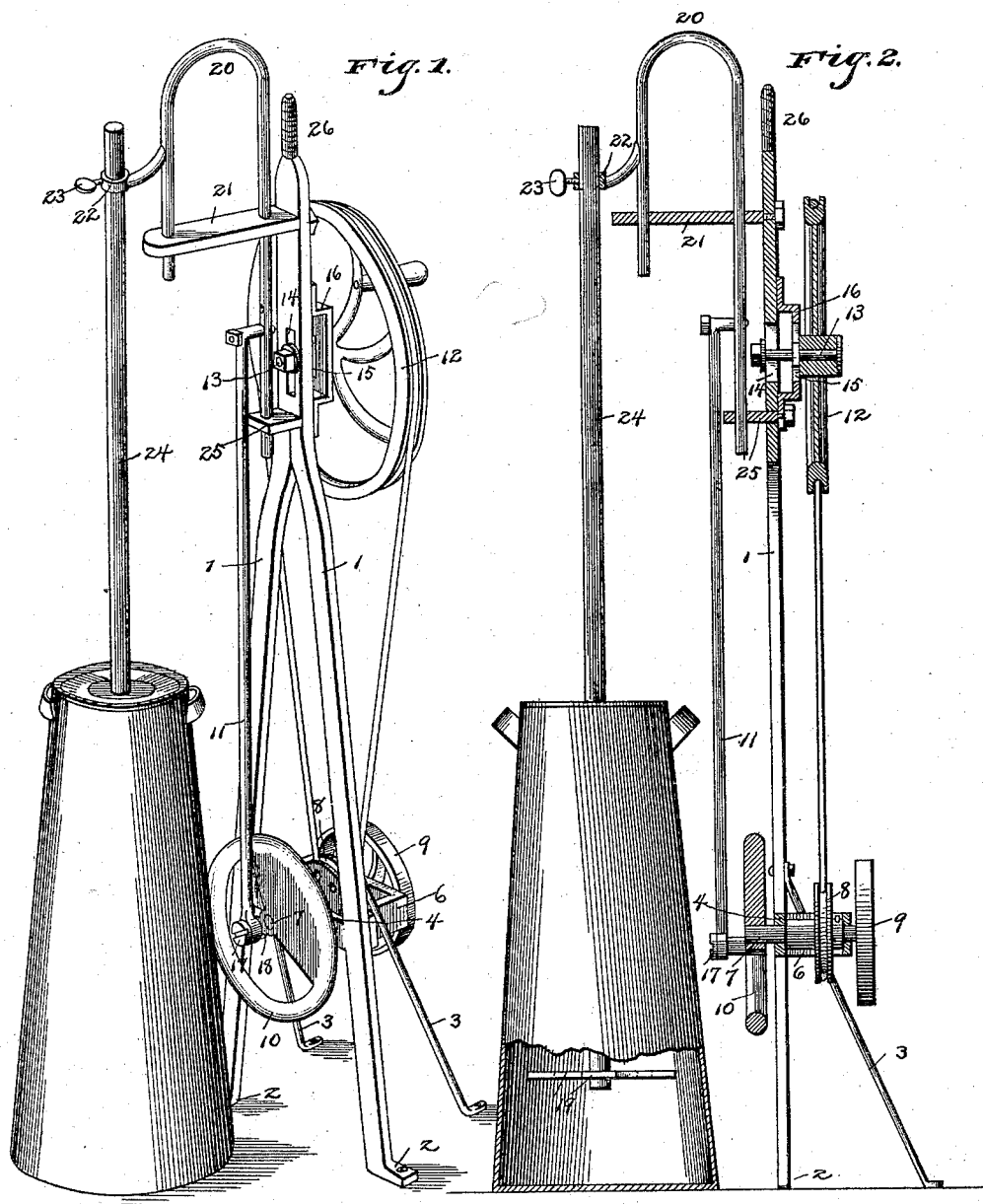


(No Model.)

W. GIBSON.
CHURN.

No. 493,825.

Patented Mar. 21, 1893.



Witnesses

Ed. O. ...
N. P. ...

By *his* Attorneys,

Cash & Co.

Inventor
Wyatt Gibson.

UNITED STATES PATENT OFFICE.

WYATT GIBSON, OF DODD, TEXAS.

CHURN.

SPECIFICATION forming part of Letters Patent No. 493,825, dated March 21, 1893.

Application filed March 5, 1892. Serial No. 423,926. (No model.)

To all whom it may concern:

Be it known that I, WYATT GIBSON, a citizen of the United States, residing at Dodd, in the county of Fannin and State of Texas, have
5 invented a new and useful Improvement in Churns, of which the following is a specification.

The invention relates to improvements in churns.

10 The object of the present invention is to provide a simple and inexpensive churn, capable of quickly producing butter, and adapted to take up but a small amount of space, and capable of being readily operated.

15 The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

20 In the drawings—Figure 1 is a perspective view of a churn constructed in accordance with this invention. Fig. 2 is a vertical sectional view.

Like numerals of reference indicate like
25 parts in both the figures of the drawings.

1, 1, designate standards provided at their lower ends with feet 2, and converging and meeting near their upper ends, and designed to be secured to a floor or supporting surface,
30 and braced by rods 3. The standards are connected near their lower ends by a horizontal bar 4, and have secured at this point a rectangular brace 6; and journaled in the bar and the brace is a shaft 7, on which is mounted
35 a band-wheel 8, a balance-wheel 9, and a crank-wheel 10, to which is attached a pitman-rod 11. The band-wheel 8 is arranged on the shaft between the bar and the rectangular brace and within the latter. The balance-
40 wheel is arranged at one end of the shaft and at the outside of the rectangular brace; and the crank-wheel is arranged at the other end of the shaft, at the outer side of the horizontal bar. The band-wheel 8 is grooved and receives motion from a drive-wheel 12, arranged
45 on a stub-shaft 13, which is vertically adjustable in a slot 14 of the standards and a slot 15 of a bracing-plate 16, which is rectangular in form and has its ends secured to the stand-
50 ards. The lower end of the pitman is adjust-

ably secured to the crank-wheel 10 by a removable wrist-pin 17, and perforations 18 of the crank-wheel to vary the stroke of a dasher 19. The upper end of the pitman is adjust-
ably connected to a vertically-reciprocating
55 dasher-rod attachment 20, which is arranged in openings of a guide 21, and which is provided at one side with an arm having an eye 22, and a set-screw 23, to secure the upper end of a dasher-rod 24, to the dasher-rod at-
60 tachment. The dasher-rod attachment 20 is approximately U-shaped and has parallel sides arranged in openings or perforations of the upper guide 21; and the inner arm of the dasher-rod attachment is extended beyond
65 the outer one and is arranged in an opening of a lower guide 25. The upper guide 21 and the lower guide 25 are provided with threaded stems which are secured to the upper portion of the standards by nuts, and are ar-
70 ranged in suitable openings thereof. The upper ends of the standards meet and terminate in a threaded portion 26, which serves as a means for securing a brace to the standards if necessary.

The churn is simple and inexpensive in construction; is compact, and takes up but a small amount of space, and is capable of producing
75 butter in a short time.

What I claim is—

80 In a churn, the combination of the standards having diverging lower portions, and a straight solid upper portion, a horizontal bar connecting the same near their lower ends, a horizontally disposed rectangular bracing
85 frame 6 secured to the standards and arranged opposite the bar, a shaft 7 journaled in suitable bearings of the bar and the bracing frame, a band wheel mounted on the shaft
7 and arranged within the bracing frame, a
90 vertically adjustable drive wheel mounted on the standards near their upper end and connected with the band wheel, a crank wheel arranged at one end of the shaft 7 and secured to the same, a balance wheel 9 arranged at the
95 other end of the shaft, the guide 21 extending horizontally from the standards and provided near its ends with openings, the guide 25 arranged below the guide 21 and having an opening disposed directly below that at
100

the inner end of the guide 21, said guides terminating at their inner ends in threaded shanks and passed through the solid portion of the standards and provided with nuts, an
5 approximately U-shaped dasher rod attachment having parallel sides arranged in the openings of said guides, one of its sides being longer than the other and arranged adjacent to the standards and provided with adjusting
10 perforations, the other side being shorter and provided with an outward extending arm having a clamping device adapted for the attachment of a dasher rod, a pitman connecting the long side of the dasher rod attachment with

the crank wheel and having its upper end 15 bent horizontally, and a bolt passing through the horizontally bent end of the pitman and arranged in one of the perforations of the long side of the dasher rod attachment, substantially as described. 20

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WYATT GIBSON.

Witnesses:

C. F. SMITH,
J. F. SADLER.