

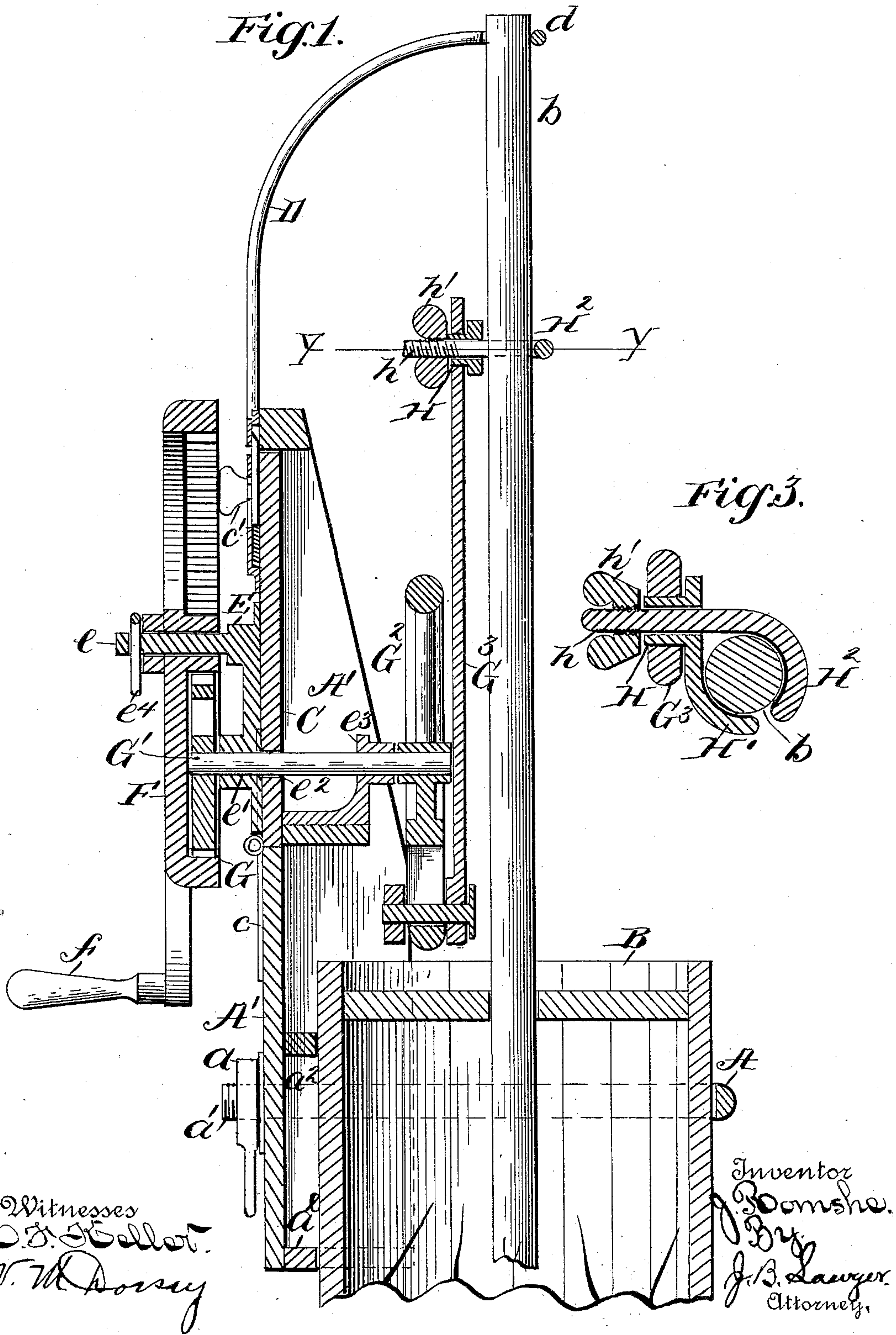
(No Model.)

2 Sheets—Sheet 1.

J. ROMSHE.
ATTACHMENT FOR CHURNS.

No. 431,234.

Patented July 1, 1890.



(No Model.)

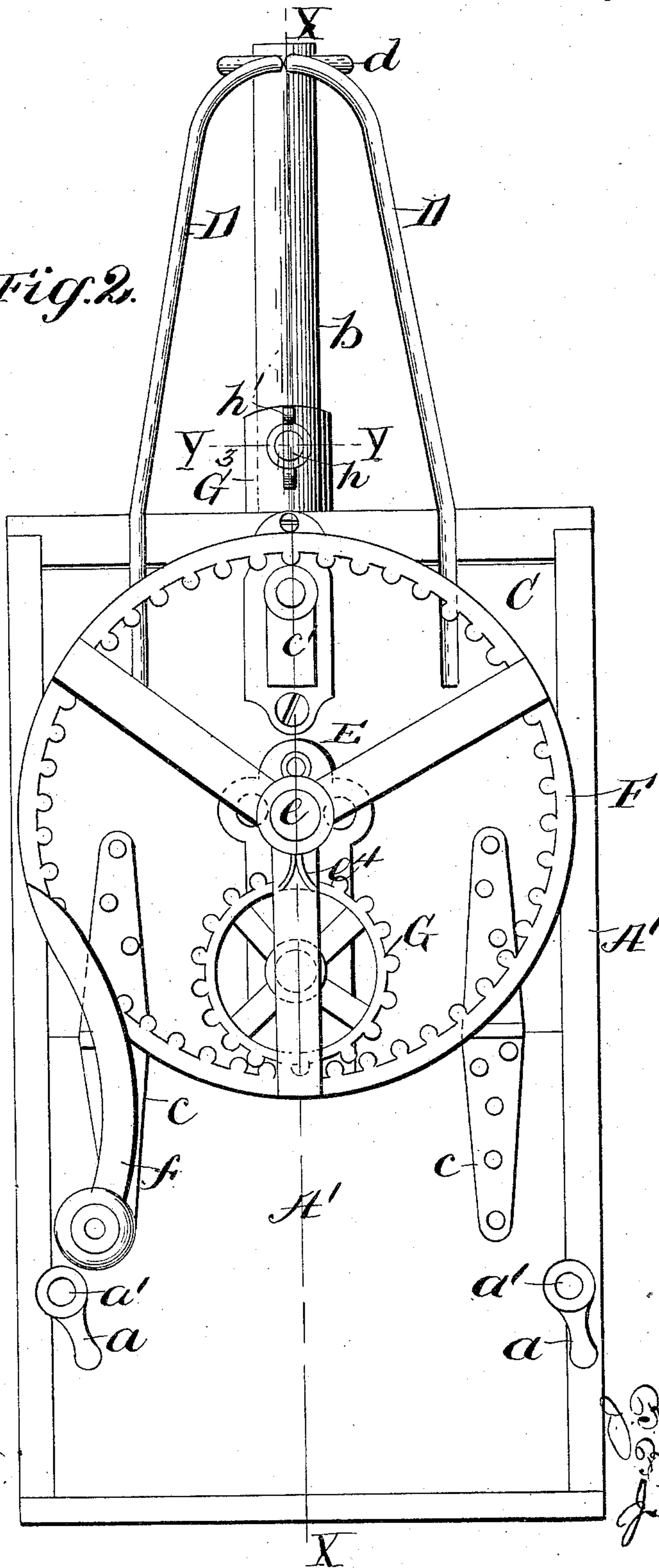
2 Sheets—Sheet 2.

J. ROMSHE.
ATTACHMENT FOR CHURNS.

No. 431,234.

Patented July 1, 1890.

Fig. 2.



Witnesses
D. F. Keller.
T. M. Dorsey

Inventor
J. Romshe.
By
J. B. Sawyer,
Attorney.

UNITED STATES PATENT OFFICE.

JOHN ROMSHE, OF LIMA, OHIO.

ATTACHMENT FOR CHURNS.

SPECIFICATION forming part of Letters Patent No. 431,234, dated July 1, 1890.

Application filed January 6, 1890. Serial No. 336,053. (No model.)

To all whom it may concern:

Be it known that I, JOHN ROMSHE, a citizen of the United States, residing at Lima, in the county of Allen and State of Ohio, have invented certain new and useful Improvements in Attachments for Churns; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention has for its object to provide means whereby a reciprocating motion may be imparted to the dashers of churns; and for this purpose it consists of a frame adapted to be attached to the barrel of the churn and having mechanism mounted thereon for giving such a reciprocating motion to the churn-dasher, for guiding the said dasher, and for permitting examination of the contents of the churn, as will be hereinafter more fully described and claimed.

Referring to the accompanying drawings, in which similar parts are designated by similar letters, Figure 1 is a longitudinal vertical section on lines $x x$ of Fig. 2. Fig. 2 is a front elevation. Fig. 3 is a detail horizontal section on lines $y y$ of Figs. 1 and 2.

A flexible metallic band A surrounds the upper part of the churn-barrel B, the threaded ends a' of the band passing through the upright frame A', to receive thumb-nuts $a a$, by which the band may be adjusted to clamp different sizes of churns, while braces a^2 , having arc-shaped faces to conform to the general outline of the barrel, are placed upon the lower end of the frame in the rear thereof, whereby it may be the more securely held in position.

An apron C is attached by hinges c in the upper portion of the upright and is adapted to be locked closed by a spring-bolt c' , and when thrown down permits free access to the rear of the frame and to the churn. Spring-arms D project backward and rearward from the upper portion of the apron and form an upper guide d for the piston b of the churn-dasher, which has the barrel B of the churn for a lower guide.

A casting E, having a cylindrical post or

stud e upon the upper part thereof, is attached to the face of the apron and has in its lower portion a recess e' , extending therethrough, a corresponding recess e^2 being provided in the apron, while a bearing e^3 is secured to the rear surface of the apron in line with the recesses e' and e^2 .

An internal gear-wheel F is mounted upon the stud e and is locked in position by the split pin e^4 , passing through the head of the stud. A handle f is provided to impart motion to the wheel F, which registers with and in turn imparts motion to the gear-wheel G, which is mounted upon the shaft G', extending through the recesses e' and e^2 to the bearing e^3 . The shaft G' has upon its rear end the fly-wheel G², to which is secured the lower end of the connecting-rod G³, while the upper part of the same rod is attached to the piston b of the churn-dasher. This connection is made as follows and is shown in detail in Fig. 3 of the accompanying drawings:

A collar H, having an arm H', is mounted in the upper end of the connecting-rod, the said arm resting upon one side of the said piston b , while a finger H² passes through the collar and rests upon the other side of the piston, having upon its shank screw-threads h , engaged by a thumb-nut h' , whereby the finger and the arm may be drawn together, tightening upon the piston.

If a rotary motion be given to the wheel F, it will be imparted to the fly-wheel G², thus imparting to the connecting-rod G³ and piston b a reciprocating motion. If it is desired to examine the contents of the churn, the spring-arms D are drawn upward, sliding the guide d off the piston-rod and the thumb-nut h' is turned, loosening the finger H² and permitting the connecting-rod to be disengaged from the piston. The latch C may be now depressed and the apron and parts connected therewith thrown down.

It will be noticed that as the band A' is adjustable, and as the connection between the connecting-rod and the piston is one which is readily made, my invention may be quickly clamped on the churn and connected with the dasher thereof, and may be made and sold separately, to be applied to the churn when desired for use.

Having thus described my invention, what I

claim, and desire to secure by Letters Patent, is—

1. In an attachment to churns, the combination of an upright frame, a clamp whereby
5 it may be secured in position, an apron hinged in the said frame, spring-arms forming an upper guide for the piston of the churn, a mechanism mounted on the said apron for converting a rotary into a reciprocating motion, and
10 a detachable connection between the said mechanism and the dasher of the churn, as and for the purposes described.

2. In an attachment to churns, the combination of an upright frame, a flexible band
15 attached to the said frame and adapted to surround the churn-barrel, means whereby the band is clamped thereon, the band being connected with the frame, an apron hinged

in the said frame, spring-arms forming an upper guide for the piston of the churn, and 20 a mechanism for converting a rotary into a reciprocating motion mounted on the said apron, a connecting-rod connected with the said mechanism, a collar provided with an arm mounted in the said connecting-rod, and 25 a finger passing through the said collar having a thumb-nut thereon, whereby the piston of the dasher of the churn may be seized between the said finger and the said arm, as and for the purposes described. 30

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

JOHN ROMSHE.

Witnesses:

FRANCIS M. DOTSON,
ORRANGE G. GUSS.