

(No Model.)

J. H. ROUSE & C. A. SCHONHOFF.
CHURN.

No. 525,865.

Patented Sept. 11, 1894.

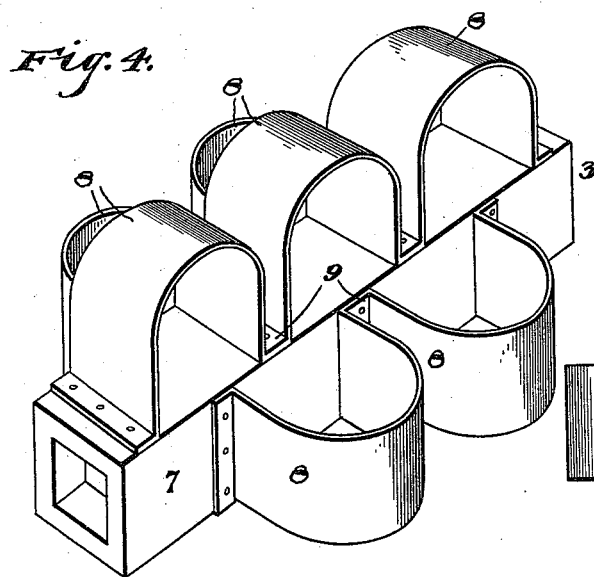
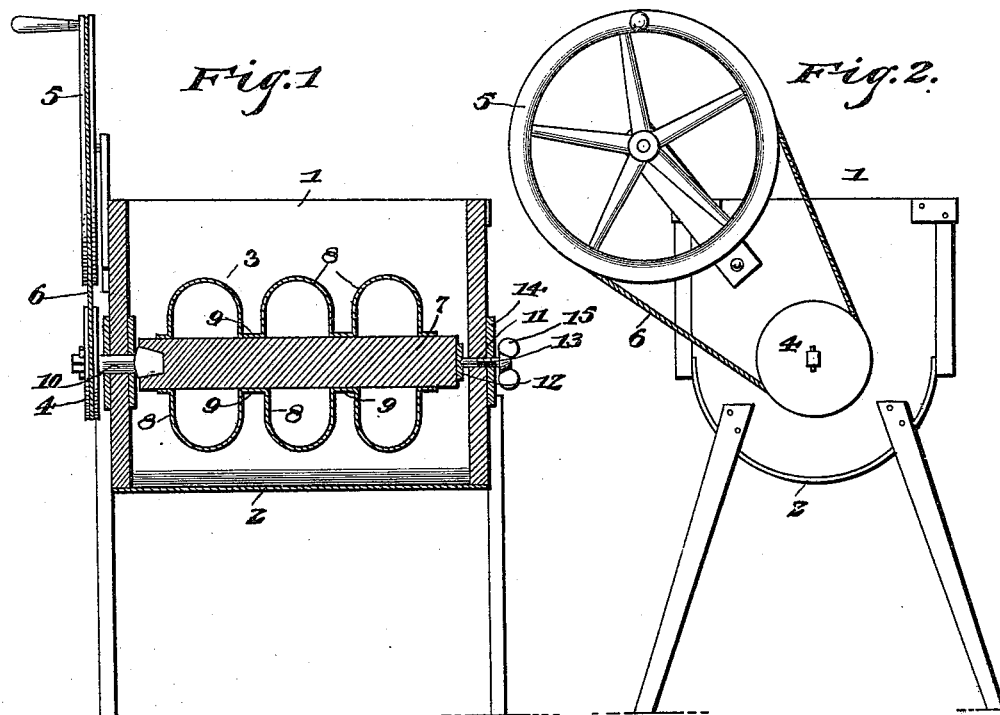
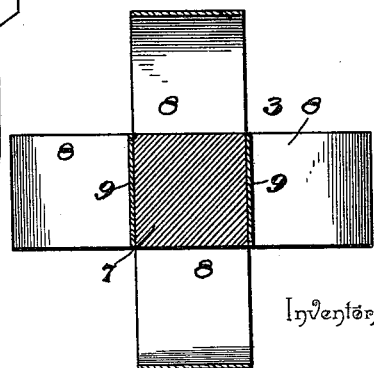


Fig. 3.



Inventors

Witnesses

B. S. Ober
J. H. Riley

By their Attorneys.

John H. Rouse
Clemens A. Schonhoff,
C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

JOHN HENRY ROUSE AND CLEMENS AUGUST SCHONHOFF, OF ADVANCE,
MISSOURI.

CHURN.

SPECIFICATION forming part of Letters Patent No. 525,865, dated September 11, 1894.

Application filed March 27, 1894. Serial No. 505,315. (No model.)

To all whom it may concern:

Be it known that we, JOHN HENRY ROUSE and CLEMENS AUGUST SCHONHOFF, citizens of the United States, residing at Advance, in the county of Stoddard and State of Missouri, have invented a new and useful Churn, of which the following is a specification.

The invention relates to improvements in churns.

10 The object of the present invention is to improve the construction of churns, and to provide a simple and inexpensive one capable of effecting a rapid production of butter with a minimum amount of labor.

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 claims hereto appended.

20 In the drawings: Figure 1 is a longitudinal sectional view of a churn constructed in accordance with this invention. Fig. 2 is an end elevation of the same. Fig. 3 is a transverse sectional view. Fig. 4 is a detail perspective view of the dasher.

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

1 designates an approximately rectangular churn-body having a rounded sheet-metal bottom 2, and having journaled in it a longitudinally-disposed dasher 3, which is rotated, by any suitable gearing, such as a pulley 4, a master-wheel 5 and a connecting belt 6; but gear-wheels may, if desired, be employed.

35 The dasher is removably journaled in the body and is composed of a rectangular shaft 7, having mounted on its four faces approximately semicylindrical dasher-loops 8. The dasher-loops 8 have slightly elongated and 40 straightened sides, they are alternately arranged and any number of them may be employed. They are open at opposite sides, and arched at the outer portion or top. Each series of dasher-loops consists of a single piece 45 of sheet-metal which is bent to form the approximately semicylindrical loops, and intermediate attachment portions 9, which are secured by any suitable fastening devices to the shaft. This construction of dasher effects a 50 rapid agitation and quickly produces butter, and is operated at the expenditure of a minimum amount of labor.

The shaft is mounted by means of journals 10 and 11. The journal 10 has an outer squared portion upon which is mounted or 55 fixed the pulley 4, and the other journal, 11, is stationary and engages a bearing-recess of a plate 12. This latter journal has a threaded stem 13, which is arranged in a threaded opening of a plate 14, and the outer end of the 60 journal is provided with a head or thumb-piece 15, by means of which it may be readily unscrewed.

It will be seen that the churn is simple and comparatively inexpensive in construction, 65 that it is easy to operate, and that it is capable of effecting a rapid production of butter.

Changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or 70 sacrificing any of the advantages of this invention.

What we claim is—

1. In a churn, a dasher comprising a polygonal shaft, provided on its faces with series 75 of alternately-arranged outward-extending approximately semi-cylindrical loops, open at opposite sides, substantially as described.

2. In a churn, the combination of a body, a polygonal shaft journaled in the body, and 80 the series of loops open at opposite sides and mounted on the faces of the polygonal shaft and extending outward therefrom, substantially as described.

3. In a churn, the combination of a body, 85 a polygonal shaft journaled therein, gearing for rotating the shaft, and the series of alternately-arranged approximately semicylindrical outward-extending loops mounted on the faces of the shaft, and consisting of strips of 90 sheet-metal bent to form the said loops and having the portions at opposite ends of the loops attached to the shaft, substantially as described.

In testimony that we claim the foregoing as 95 our own we have hereto affixed our signatures in the presence of two witnesses.

JOHN HENRY ROUSE.
CLEMENS AUGUST SCHONHOFF.

Witnesses:

M. L. GRAHAM,
M. L. CRABTREE.