

H. N. STEARNS.

Churn Dasher.

No. 34,652.

Patented March 11, 1862.

Fig. 1.

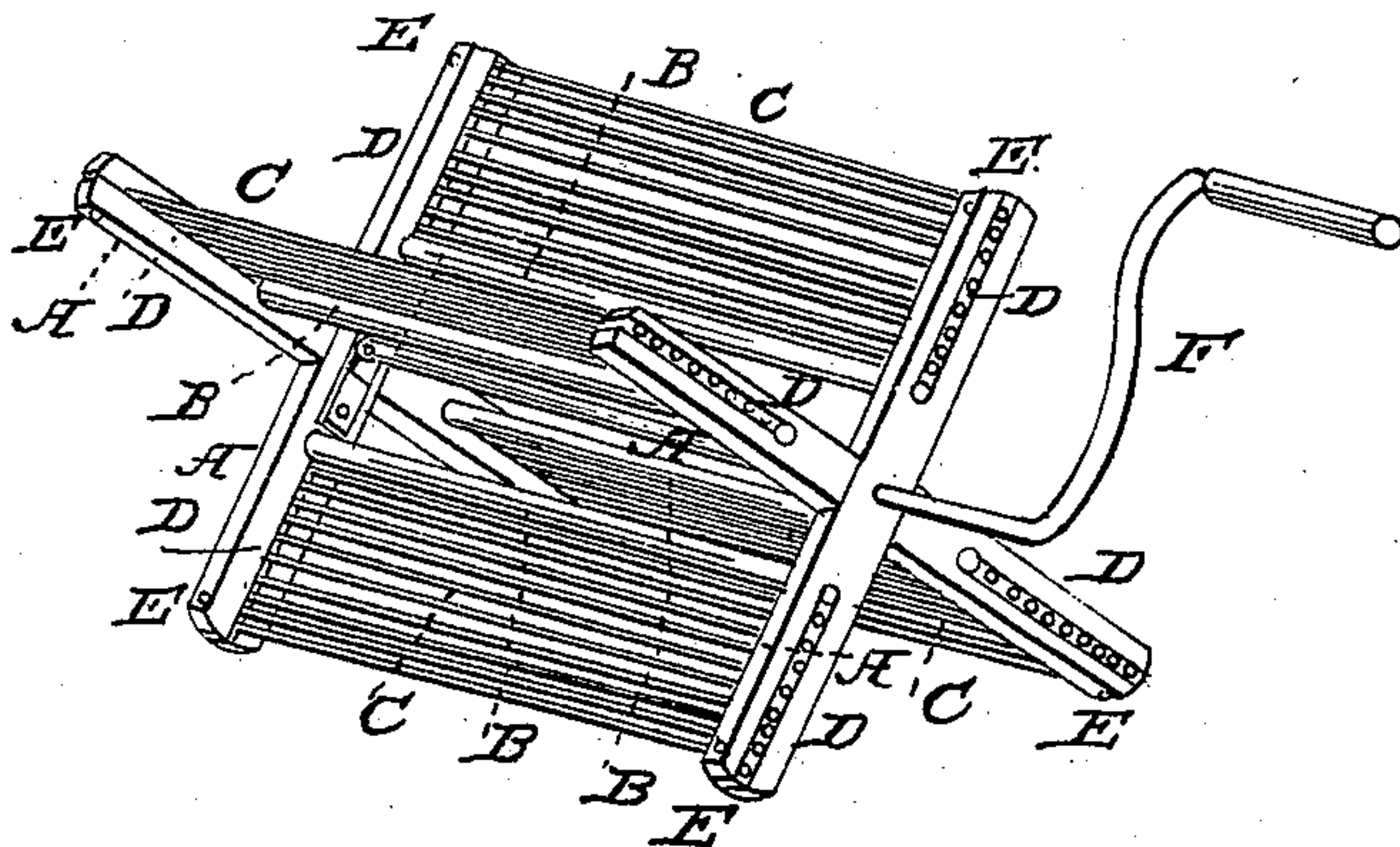
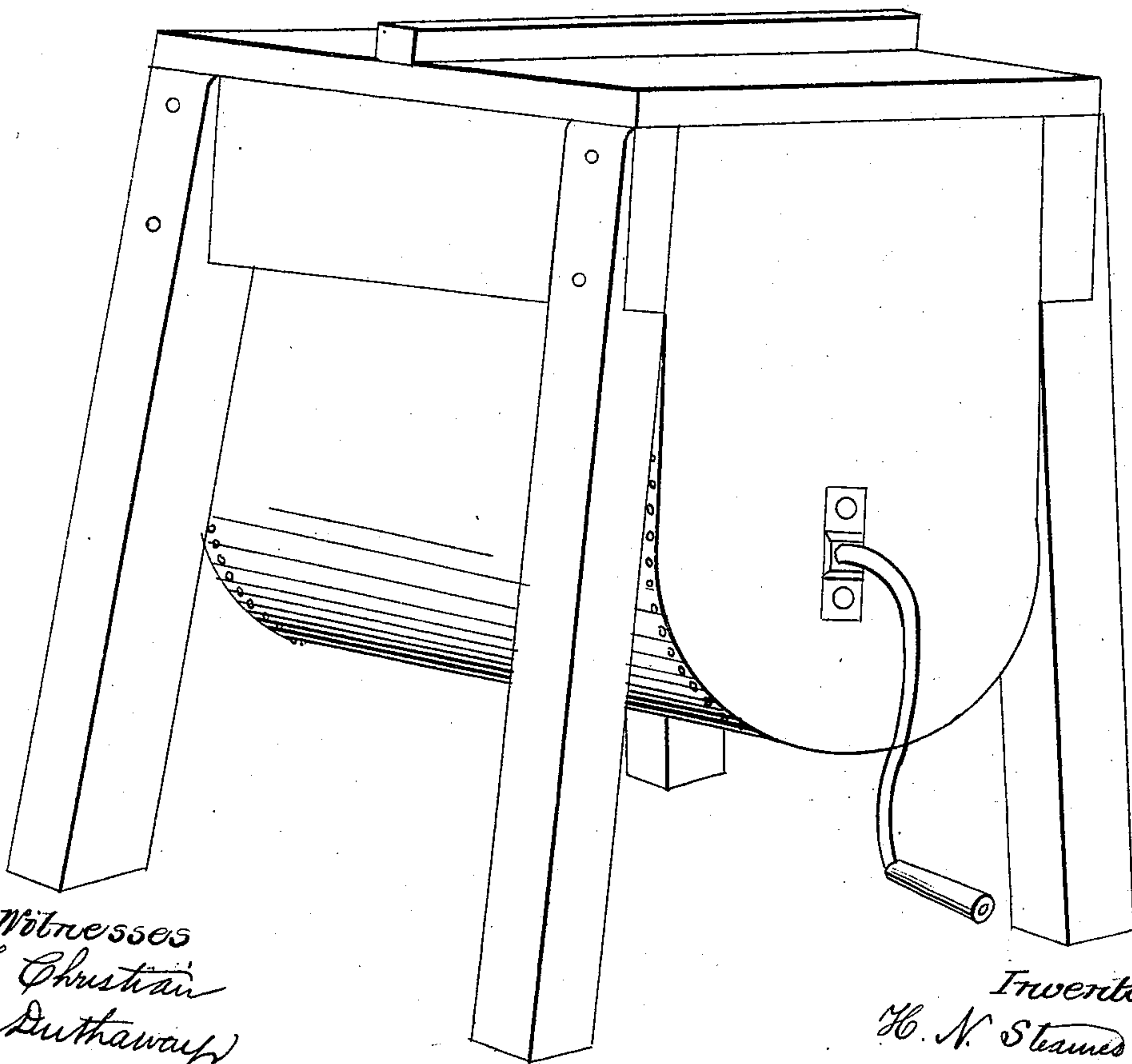


Fig. 2.



Witnesses
L. Christian
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UNITED STATES PATENT OFFICE.

H. N. STEARNS, OF CHARDON, OHIO.

IMPROVEMENT IN CHURN-DASHERS.

Specification forming part of Letters Patent No. 34,652, dated March 11, 1862.

To all whom it may concern:

Be it known that I, H. N. STEARNS, of Chardon, Geauga county, Ohio, have invented a certain new and useful Improvement in Rotary and other Churn-Dashers; and I do hereby declare that the following is a full, clear, and exact description of the construction and application of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view showing a revolving dasher. Fig. 2 is a box or churn in which the dasher is to be operated in the process of churning.

In Fig. 1, A are arms crossing at right angles, of wood or other material.

B are rods connecting arms A; C, a series of metal wires, round, square, or other form, extending from arm to arm, as seen at D D.

D are tin plates upon which wires C are soldered at equal distances and inserted into arms A and fastened at E by screws, and F a crank by which dasher is put in motion.

My improvement is designed to reach the application of a series of metallic wires or small rods, as above, in the construction and use of revolving and other churn-dashers, by means whereof the use of floats or slats of wood are superseded, and thereby the process of churning is more speedily and effectually accomplished.

The above object is attained by the simple yet philosophical process of passing the series

of wires briskly through the whole mass of cream, cutting it, and not simply slapping and moving the body of cream from place to place, the wires cutting through the mass forty-eight times at each revolution instead of four times, as in the common float or slat churns, thereby speedily and effectually and with comparative ease performing the usually tedious and laborious process of churning. Demonstration presents practical proof that the process may be performed in one minute by the application of my improvement, and in addition to the dispatch with which the work is executed there is a valuable increase of butter.

I am aware that metallic wires have previously been applied to churn-dashers, but know of no instance in which they have been arranged in the manner I have described.

What I claim as new and of my invention, and desire to secure by Letters Patent, is—

1. A horizontal churn-dasher, consisting of a crank-shaft F, arms A, metallic wires C, and rods B, all combined and arranged in the manner set forth.

2. Stretching the wires C between the arms A, by soldering the said wires to thin metallic plates D, and securing the latter within the arms A, as explained.

H. N. STEARNS.

Witnesses;

T. CHRISTIAN,

J. N. HATHAWAY.