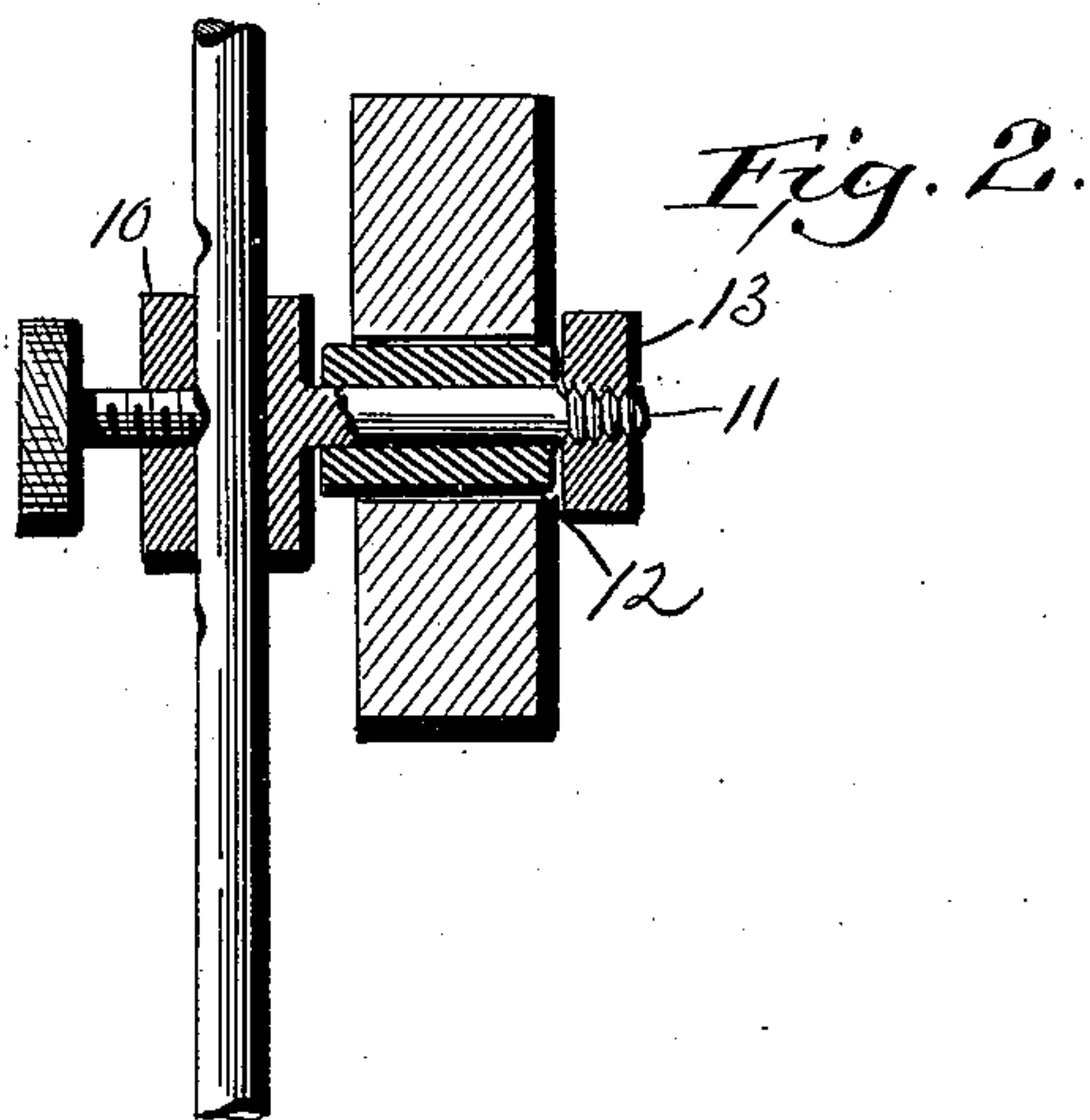
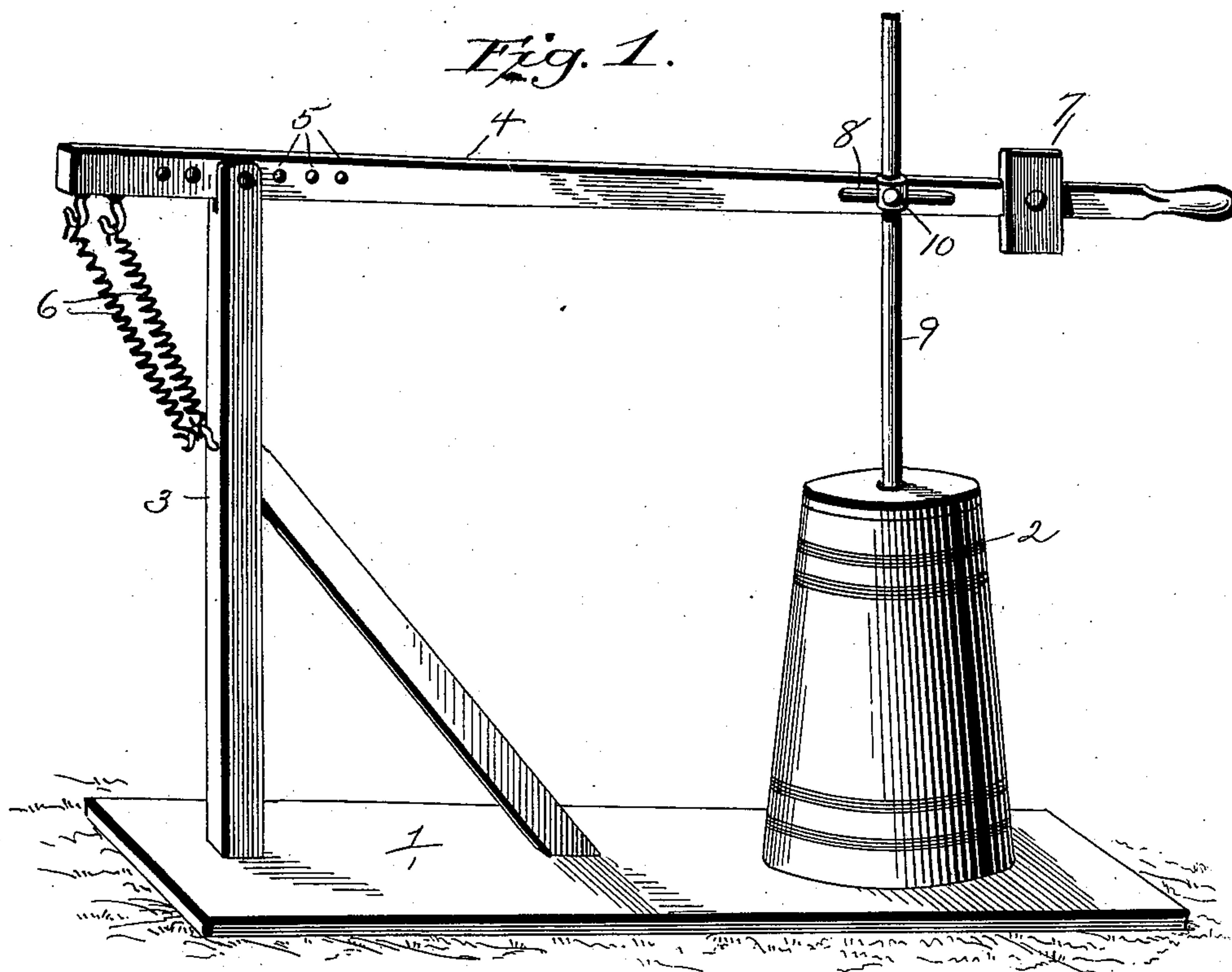


(No Model.)

W. SPARLING.
CHURN.

No. 564,228.

Patented July 21, 1896.



Witnesses:
L. C. Hills.
E. C. Catts

Inventor:
Wm. Sparling
By Glasebrook
Attys.

UNITED STATES PATENT OFFICE.

WILLIAM SPARLING, OF LITTLE ROCK, ARKANSAS, ASSIGNOR OF ONE-HALF
TO THOMAS E. LITTLE, OF SAME PLACE.

CHURN.

SPECIFICATION forming part of Letters Patent No. 564,228, dated July 21, 1896.

Application filed January 18, 1895. Serial No. 535,401. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM SPARLING, a citizen of the United States, residing at Little Rock, in the county of Pulaski and State of Arkansas, have invented a certain new, useful, and valuable Improvement in Devices for Operating Churns, of which the following is a full, clear, and exact description.

My invention has relation to a device for operating churns; and it consists in the novel construction and arrangement of its parts, as hereinafter described.

In the accompanying drawings, Figure 1 is a perspective view of the device. Fig. 2 is a detail sectional view of the connection between the dasher-rod and the lever of the device.

The device consists of a platform 1, upon which the churn 2 rests. An upright 3 is located on the platform and suitably braced. The lever 4 is fulcrumed in the upper end of the upright 3. Said lever 4 is provided with a number of perforations 5, each adapted to receive the bolt in the upper end of the upright 3, and whereby the fulcrum-point of the said lever may be changed as desired.

The springs 6 6 connect the short end of the lever 4 with the upright 3, and by changing the fulcrum-point of the lever 4 the tension of the springs 6 6 can be regulated. The free end of the lever 4 is fashioned into a handle, as shown, and is provided with an adjustable weight 7, which can be temporarily secured in a stationary position on the said lever. The lever is further provided with a horizontal elongated perforation 8.

The dasher-rod 9 is provided with an adjustable collar 10, which can be temporarily secured in a stationary position on the said rod by a thumb-screw or other suitable fastening. Said collar is provided with a neck 11, threaded at its outer end, and having journaled thereon the roller 12. A threaded nut 13 is screwed on the threaded end of said neck and holds said neck and roller in the perforation 8, but loosely, so that the said

neck may turn in said roller, may move to the right and left in said perforation, as may be required by the operation of the mechanism hereinabove described. Said neck and roller are adapted to pass through the elongated perforation 8, and the nut 13 is adapted to retain the roller on the neck and also retain the said parts in the said perforation. (See Fig. 2.)

The device is operated as follows: The tension of the springs 6 6 are regulated by fulcruming the lever 4 at the desired point. The collar 10 is then adjusted on the dasher-rod 9, and the neck 11 and roller passed through the elongated perforation 8 and retained therein. The weight 7 is then adjusted so that the lever 4 is evenly balanced on the upright 3, or it may be so adjusted that the springs 6 will raise the dasher, so that the operator may be required only to pull the lever down in order to perform the operation of churning. The device is then ready for churning, and is operated at the free end of the lever 4. When the lever is operated, the vibration of the springs 6 6 will impart a vibration to the lever 4, and thus the operator is saved considerable exertion.

The elongated perforation 8 allows sufficient lateral play of the neck 11 in the perforation as to cause the dasher-rod 9 to have a perpendicular reciprocating motion and the roller 12 reduces the friction at the point of connection.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A device for operating churns consisting of the combination of an upright, a lever fulcrumed in said upright, said lever having an elongated perforation; a churn located under said lever, said churn having a perpendicular dasher-rod, said rod having suitable indentations, a collar surrounding said dasher-rod, said collar having a set-screw adapted to enter the indentations on the dasher-rod, said collar having a lateral protrusion, said pro-

trusion having a thread on its end, a friction-
roller journaled on said protrusion, said fric-
tion-roller adapted to enter the elongated per-
foration in the lever, a nut adapted to pass
5 on the thread of the collar protrusion and re-
tain the friction-roller on the protrusion and
also retain the friction-roller in the elongated
perforation of the lever, the said nut being

greater in diameter than the width of the
elongated perforation in the lever. 10

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

WILLIAM SPARLING.

Witnesses:

J. B. HUSTON,

M. ALLEN.