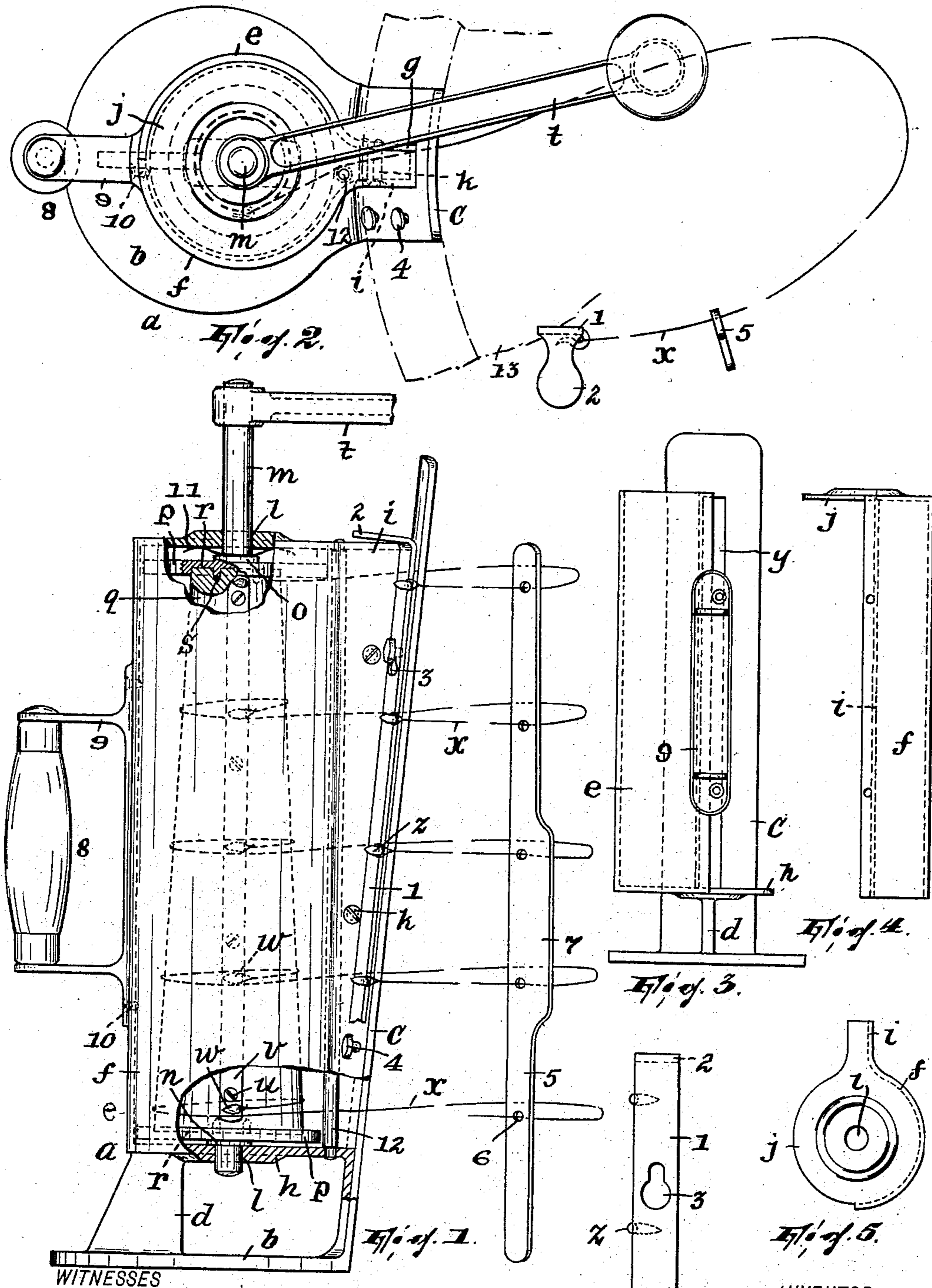


No. 863,881.

PATENTED AUG. 20, 1907.

C. SANDERSON.
BUTTER WIRING APPARATUS.
APPLICATION FILED JUNE 22, 1907.



WITNESSES

Wm. Drell.
Elie Kaufmann.

INVENTOR,
Charles Sanderson,
BY
Garthm. Steward,
ATTORNEYS

UNITED STATES PATENT OFFICE.

CHARLES SANDERSON, OF PATERSON, NEW JERSEY.

BUTTER-WIRING APPARATUS.

No. 863,881.

Specification of Letters Patent.

Patented Aug. 20, 1907.

Application filed June 22, 1907. Serial No. 380,230.

To all whom it may concern:

Be it known that I, CHARLES SANDERSON, a citizen of the United States, residing in Paterson, Passaic county, New Jersey, have invented a certain new and useful Improvement in a Butter-Wiring Apparatus; and I do hereby 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 letters of reference marked thereon, which form a part of this specification.

The object of this invention is to provide a simple, compact and relatively inexpensive device for wiring butter in such manner as to wire an entire tub of butter into slices of suitable thickness at one operation and to avoid the operator's hands coming in contact with the uncovered butter.

I have fully illustrated my invention in the accompanying drawing, wherein,

Figure 1 is a view thereof in side elevation, certain parts being shown in section and others broken away; Fig. 2 is a top plan view, the outline of the cake of butter being shown by dot and dash lines; Figs. 3 and 4 are rear views, somewhat smaller than Figs. 1 and 2, of the parts forming the frame and casing of the apparatus; Fig. 5 is a view on the same scale as Figs. 3 and 4 of the top of what is seen in Fig. 4; and, Fig. 6 illustrates a detail.

In said drawing, *a* is a suitable frame comprising a base *b*, a curved plate *c*, a web *d* and one part or member *e* of a cylindrical casing, the other part or member of which is marked *f* and appears, detached, in Fig. 4; the several parts *a*, *b*, *c*, *d* and *e* are integral. The part or member *e* of the casing is substantially a semi-cylinder having a web *g* whereby it is joined to the plate *c* and also having the substantially circular head *h*; the web *d* connects the head *h* with the base *b*. The member *f* is also a semi-cylinder and has a web *i* at the front adapted to abut against the plate *c* when the parts *e* and *f* are arranged, as shown in Figs. 1 and 2, to form the cylindrical casing; member *e* also has the circular head *j*. When the parts or members *e* and *f* are arranged as above described to form the cylindrical casing, the member *f* at its lower end fits snugly against the periphery of the head *h* while the member *e* fits snugly against the periphery of the head *j*; the parts *e* and *f* may be secured together in this position by the screws *k* which penetrate their webs *g* and *i*. The heads *h* and *j* are formed with aligned holes *l* affording bearings for a shaft *m* which is held against downward displacement by a shoulder *n* which rests on the head *h*; said shoulder and a shoulder *o* are projections of the disks *p* secured on said shaft, between which

disks is arranged the conical drum *q*. The drum is let into a recess *r* in each disk and the rotation of the drum with the disks and shaft is insured by the pins *s* which are driven into the ends of the drum. The shaft *m* carries a crank *t* for rotating it.

By screws or the like *u*, an inlaid strip *v* is secured to the drum, longitudinally thereof, the same having a series of hooks *w* to which are attached the wires *x*. These wires extend through a vertical slot *y* formed between the webs *g* and *i* in the plate *c* and they are attached at their free ends to the hooks *z* on a strip having its upper end bent over to form a handle. This strip has the key-hole shaped apertures *3* whereby it may be attached to the back of the plate *c* on the buttons *4*, as shown in Fig. 1. *5* is a wire-adjusting slat having holes *6*, through which the wires are threaded between the drum and the strip *1*, and having a widened portion *7* forming a hand-grip.

8 is a handle for the apparatus, the same having its body part *9* forming an integral part of the member *e* of the casing and adapted to overlap the member *f* so that screws *10* may be passed through it and said member *f* to thus secure members *e* and *f* together at the back.

11 is a bow spring penetrated by shaft *m* and bearing against head *j* and shoulder *o*; and *12* is a roller journaled in heads *j* and *h* and forming a guide for the wires.

It will be observed, on reference to Fig. 2, that the plate *c* has a curvature which corresponds to that of the curved face of the cake of butter *13* so that it will bear squarely against it when the apparatus is in operative position.

In using my device, having removed the tub from the butter, leaving the latter resting inverted on the head of the tub, the apparatus is placed with its plate *c* bearing squarely against the side of the butter. The strip *1*, which has been previously detached from the buttons *4* and has connected to it the wires *x*, is passed around the butter and then attached to the buttons *4*. Having then taken up some of the slack in the wires by rotating shaft *m*, the slat *5* is placed around the butter with the effect that it properly spaces the several wires from each other, whereupon it is placed against plate *c* opposite strip *1*. The shaft is now further rotated and the consequent winding of the wires on the conical drum causes them to cut through the butter and form it into horizontal layers.

The conical form of the drum has for its purpose to compensate for the reverse conical form of the cake of butter, so that the wires all complete their cutting operation at the same time. The spring *12* operates as a brake on the shaft *m* so as to hold the same against rotation while the slat *5* is being manipulated.

Having thus fully described my invention, what I claim and desire to secure by Letters Patent is:

- 5 1. In a butter-wiring apparatus, the combination of a frame, a conical drum journaled in said frame, wires attached to the drum at one end, and means for securing the other ends of the wires against movement under the draft of said drum, substantially as described.
- 10 2. In a butter-wiring apparatus, the combination of a frame having an inclined part adapted to bear against the inclined face of a cake of butter, a conical drum having its inclined face reverse to that of said inclined part, wires attached to the drum at one end, and means for securing the other ends of the wires against movement under the draft of said drum, substantially as described.
- 15 3. In a butter-wiring apparatus, the combination of a frame having an inclined part adapted to bear against the inclined face of a cake of butter, wires, means for effecting a draft on the wires at graduated speeds, and means for securing the wires at one end against the draft-action of said means, substantially as described.
- 20 4. In a butter-wiring apparatus, the combination of a frame, wires, means for effecting a draft on the wires, a

strip attached to the wires at one end thereof, and means for detachably securing said strip to the frame, substantially as described. 25

5. In a butter-wiring apparatus, the combination of a frame having an inclined plate adapted to bear against the inclined face of a cake of butter, wires adapted to be extended around the cake of butter, means for effecting a draft on the wires and means for securing the wires at one end against the draft-action of said means, substantially as described. 30

6. In a butter wiring apparatus, the combination of a frame, wires, means for effecting a draft on the wires, means for securing the wires at one end against the draft-action of said means, and a wire adjusting slat penetrated by said wires, substantially as described. 35

In testimony, that I claim the foregoing, I have hereunto set my hand this 20th day of June, 1907.

CHARLES SANDERSON.

Witnesses:

JOHN W. STEWARD,
WM. D. BELL.