

SAMUEL G. DARE.

Improvement in Feeders for Wax-Tapers.

No. 114,772.

Patented May 16, 1871.

Fig. 1

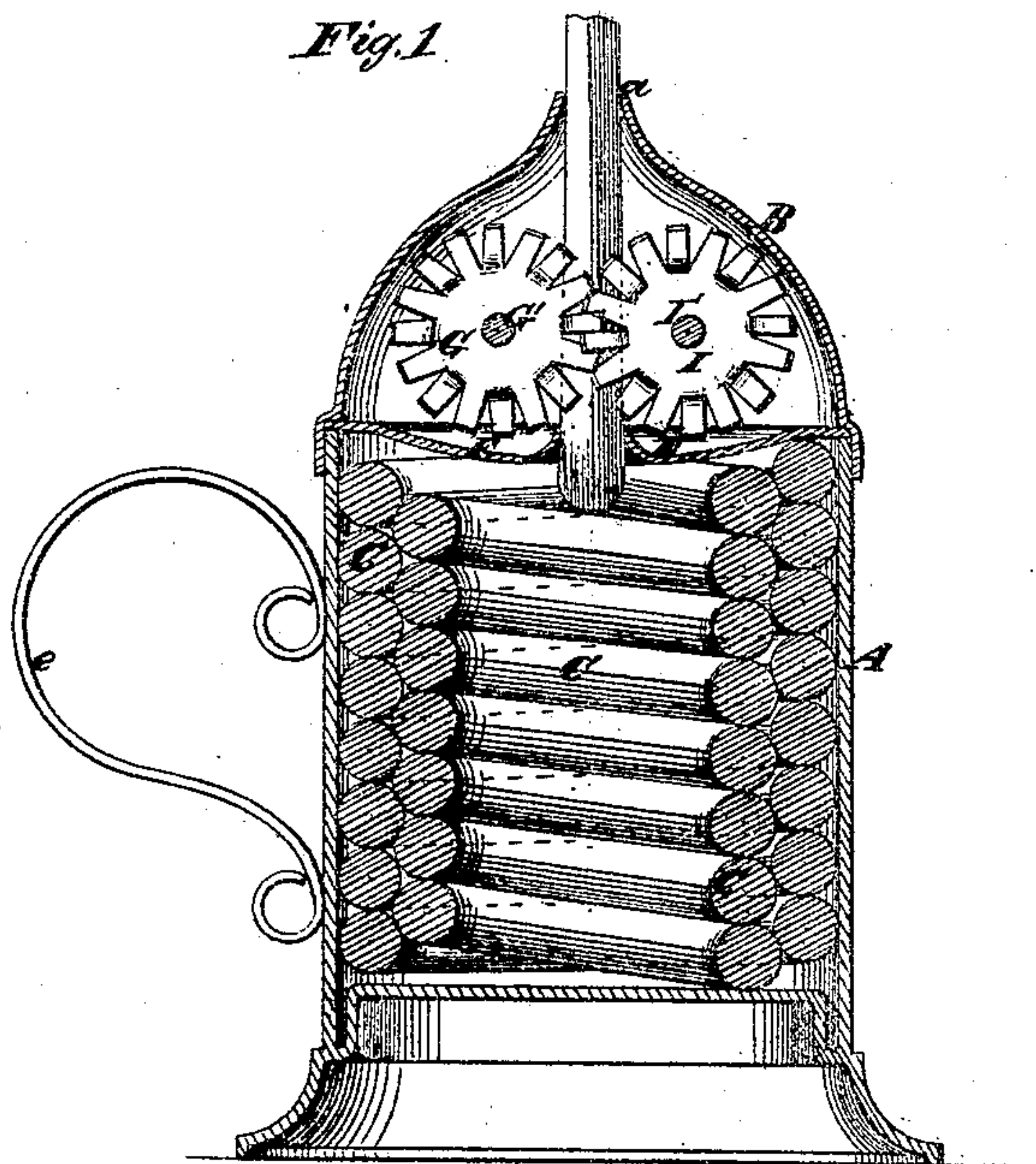
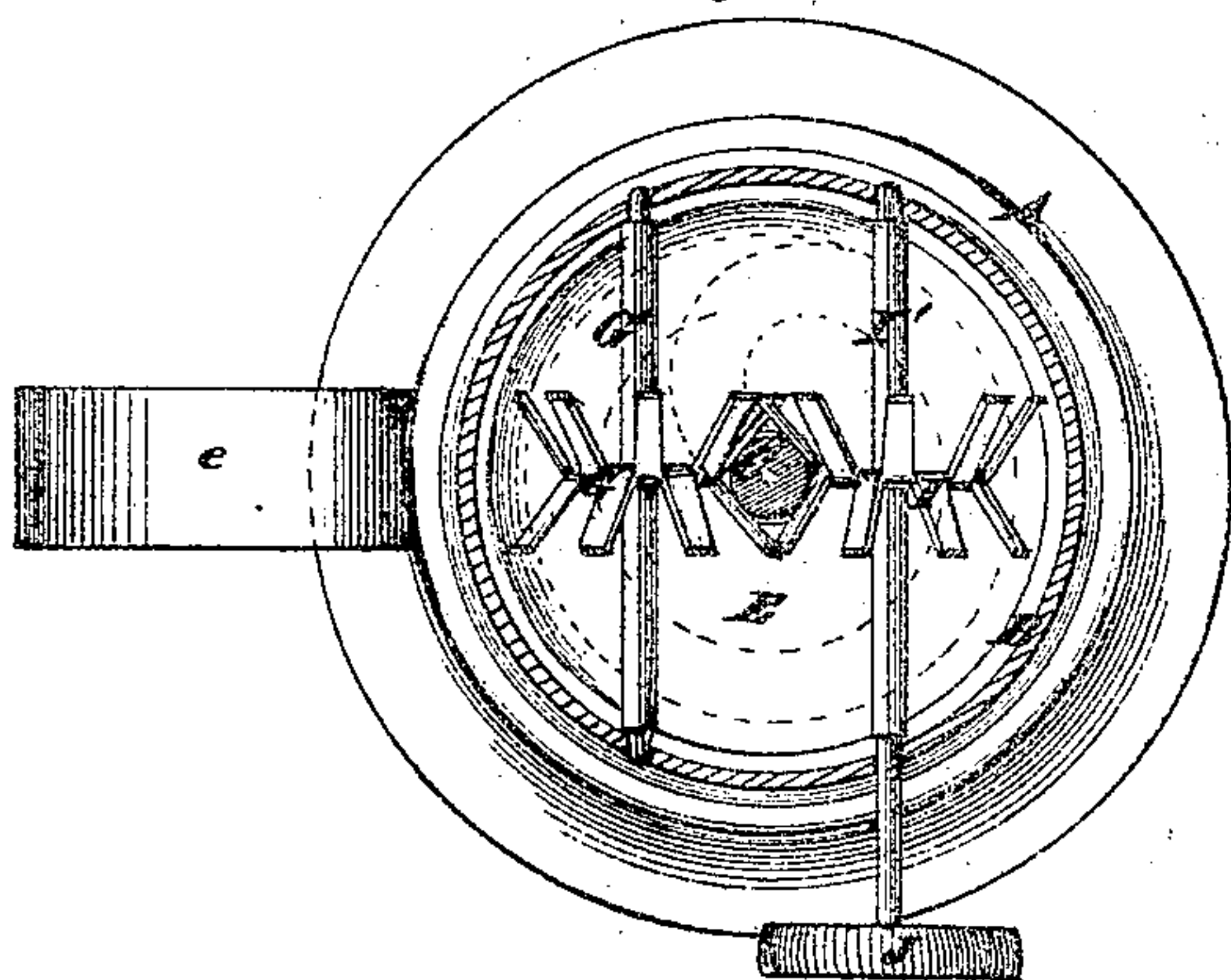


Fig. 2



Witnesses.

Fred Haynes
R. V. Rubeau

Samuel G. Dare

United States Patent Office.

SAMUEL G. DARE, OF NEW YORK, N. Y.

Letters Patent No. 114,772, dated May 16, 1871.

IMPROVEMENT IN FEEDERS FOR WAX TAPERS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, SAMUEL G. DARE, of the city, county, and State of New York, have invented a new and improved Feeder for Wax Tapers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing forming a part of this specification.

This invention consists in feed-wheels of novel construction arranged within the head of a box or receptacle which contains the coil of taper, whereby the taper is fed in a very positive manner, without sustaining any injury from the wheels.

It also consists in the combination, with such wheels interposed between them and the coil of taper, of a false head with a funnel-like opening for the direction of the taper to the wheels.

In the accompanying drawing—

Figure 1 is a central longitudinal section of a taper and cup, having my improved feed-wheels applied; and

Figure 2 is a transverse section through the head of the same.

Similar letters of reference indicate corresponding parts in both figures.

A is a cylindrical box, of a size to receive an ordinary coiled taper, C, and having a flaring base, and provided with a handle, e, by which it may be carried.

This box is provided with a removable head or cap, B, through the top or mouth a of which the end of the taper C projects.

E is a plate fitted into the lower part of the head or cap B, and constituting what may be termed a false head.

This has formed in it a central hole, the edges of which are turned upward to form a rounded funnel-shaped throat, through which the end of the taper passes, and is thereby guided to the feed-wheels G I, which are arranged within the head or cap B.

These feed-wheels are made of circular plates of metal slit radially at regular intervals from their circumferences, and having alternate portions between the slits bent in reverse directions so as to form obtuse angles with the bodies or central portions of the plates, each tooth being opposite the space between two of those which are bent reversely thereto.

It will be seen that each of the wheels thus constructed has two series of teeth, one on each side of a central plane.

The two wheels are arranged on parallel shafts G I, which are supported in bearings in the head B in such positions relatively to each other that the tips of their teeth gear with each other, and the base portions of the teeth gripe the taper C securely between them, as shown in fig. 2, so that they will feed it upward as the wheels are made to rotate in a proper direction.

The shaft of one of the feed-wheels is provided with thumb-wheel J, by means of which the wheels may be turned to raise or lower the taper.

The funnel-mouth of the false head conducts the taper from the coil to the feed-wheels in such manner as to prevent it from fouling or getting across the wheels.

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

1. The feed-wheels, having their teeth constructed and arranged substantially as described, to gear with each other and to gripe the wick between them.

2. The combination, substantially as described, with the wheels G I of the false head E, having a funnel-shaped central opening.

SAMUEL G. DARE.

Witnesses:

FRED. HAYNES,
R. E. RABEAU.