

(Model.)

J. H. GERRY.

Winding Attachment for Clocks.

No. 236,017.

Patented Dec. 28, 1880.

Fig. 1.

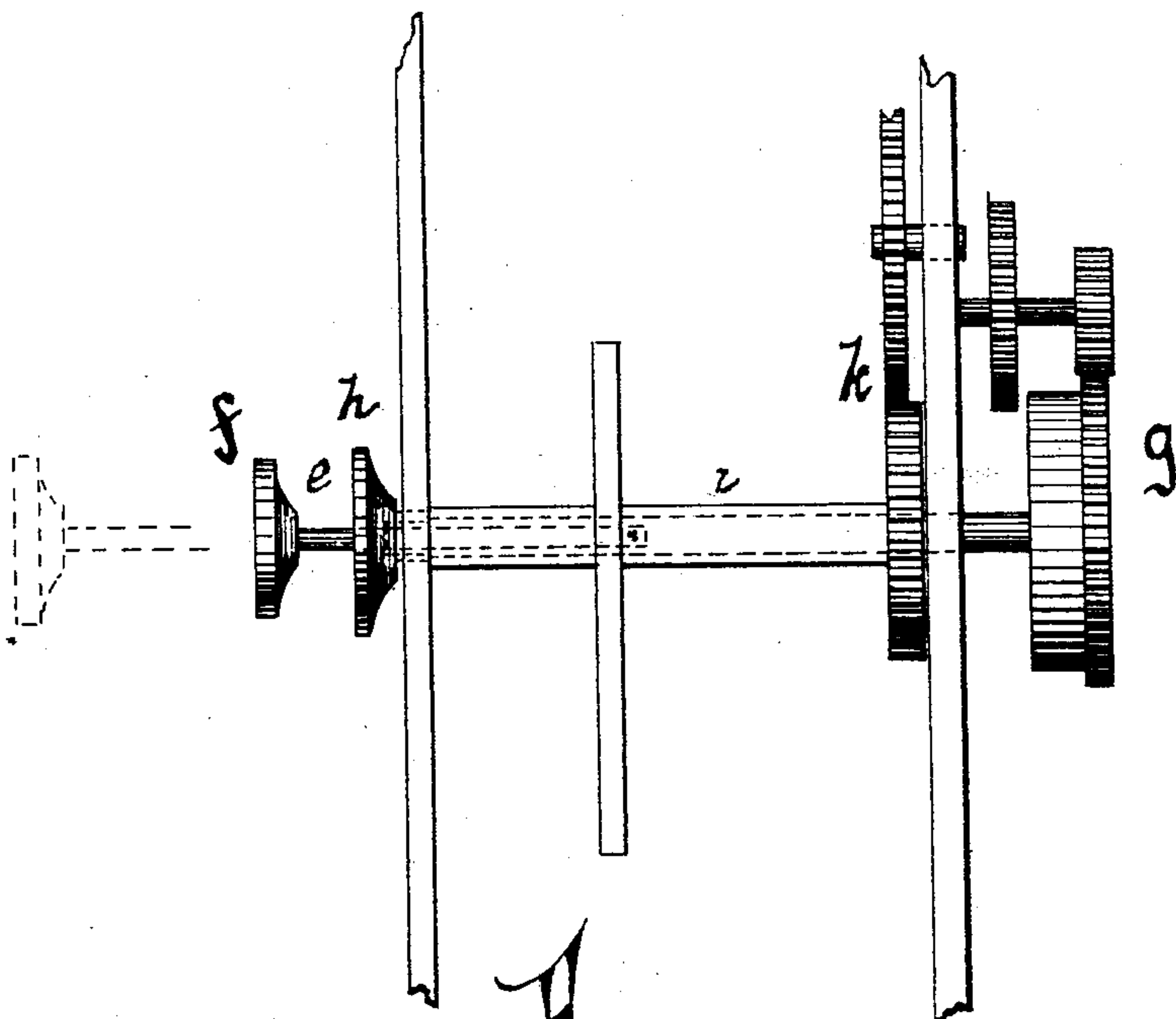
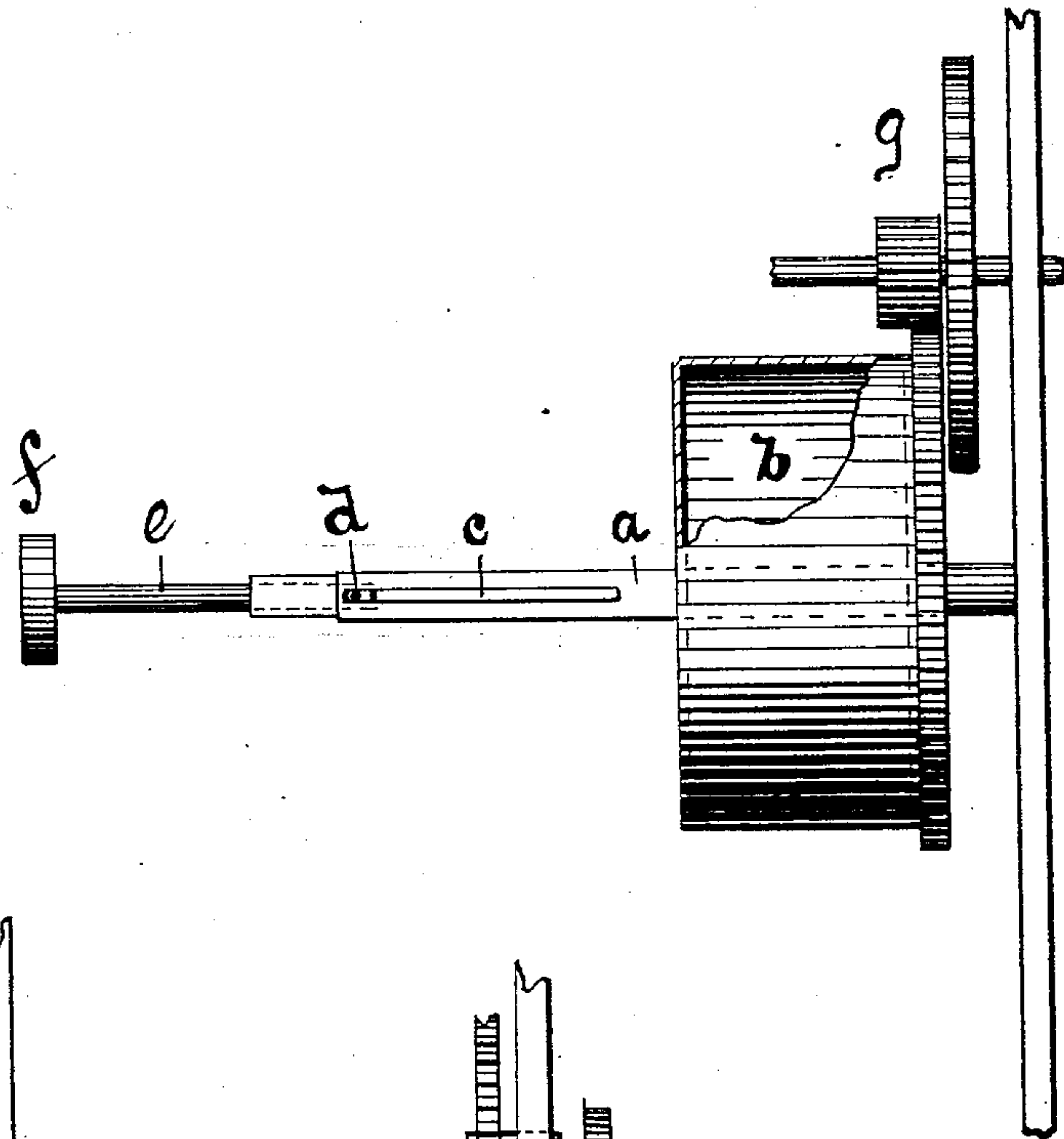


Fig. 2.

Witnesses:
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UNITED STATES PATENT OFFICE.

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WINDING ATTACHMENT FOR CLOCKS.

SPECIFICATION forming part of Letters Patent No. 236,017, dated December 28, 1880.

Application filed August 2, 1880. (Model.)

To all whom it may concern:

Be it known that I, JAMES H. GERRY, of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Clocks; 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.

This invention relates more particularly to traveling or companion clocks, but is applicable to any clock where it is desirable to reduce to as great an extent as possible the thickness thereof.

The object of the invention is to render the winding mechanism of said clocks capable of being manipulated with greater facility.

It consists in the combination, with the main, alarm, or other spring of a clock, of a hollow cylinder with a slot therein, said cylinder carrying a sliding shank with a pintle thereon, which works in the slot last mentioned, and holds said shank within said cylinder and prevents the same from turning laterally therein when the clock is being wound or set, all of which will be evident upon reference to the drawings.

The invention further consists in the combination, in an alarm-clock, of the above-described extensible winding apparatus with a hollow stem adapted to communicate power to the hand-setting train of the alarm, as will be hereinafter fully described.

Referring to the accompanying drawings, in which similar letters of reference indicate like parts in each of the figures, Figure 1 illustrates my invention and shows its relation to the mainspring, and Fig. 2 represents the combination of the mechanism for winding up the alarm-spring with the mechanism for setting the alarm.

In carrying out my invention I construct the hollow cylinder *a*, which may either be the spindle upon which the spring *b* is attached, or it may be merely intimately attached to the same. The said hollow cylinder is perforated by the slot *c*, in which the pintle upon the shank *e* slides, thus adapting said shank *e* and its thumb-piece *f*, when in a confined or unhandy position in the clock, to be pulled

out, as represented in dotted lines in Fig. 2, to a position of easy access and manipulation. The pintle *d* also serves to turn the cylindrical stem *a* when the shank *e* is turned by the thumb-piece, as will be evident. 55

To reduce the amount of space which would otherwise be required, I have combined this winding apparatus, when used in an alarm-clock, with the mechanism that turns the hand to the hour of striking, which combination is particularly illustrated by Fig. 2, in which *h* is the thumb-piece to which the power for setting the hand is applied, and *i* a tubular stem connecting said thumb-piece *h* with the train *k*, connected with said hand, which indicates the hour of the alarm. Through the tubular stem *i* passes the extensible winding apparatus hereinbefore described, which connects with either the alarm or main spring *g*. 60 65 70

Having thus described my invention, what I claim, and wish to have secured by Letters Patent, is—

1. In a clock, the combination of the slotted hollow cylinder *a* with the shank *e*, having the pintle *d* thereon, said pintle working in the slot of said cylinder, as and for the purpose set forth. 75 80

2. The combination, with the mainspring *b*, of the cylinder *a* and shank *e*, as and for the purpose set forth.

3. The combination, with the spring *b*, of the slotted hollow cylinder *a* and the shank *e*, bearing the pintle *d*, adapted to work in the slot *c*, and the thumb-piece *f*, as and for the purpose set forth. 85

4. In an alarm-clock, the combination, with the winding apparatus, of the hollow stem *i* and attachments, both elements turning on the same center, as shown, for the purposes set forth. 90

5. The combination, with the hollow stem *i*, adapted to communicate power to the hand-setting train *k*, of the extensible winding apparatus passing through said hollow stem *i* and connected with the time-train *g*, as and for the purpose set forth and shown. 95

In testimony that I claim the foregoing I have hereunto set my hand this 29th day of July, 1880. 100

JAMES H. GERRY.

Witnesses:

OLIVER DRAKE,
CHARLES H. PELL.