

No. 705,703.

Patented July 29, 1902.

W. E. PORTER.
STEM WINDING WATCH.

(Application filed Jan. 22, 1902.)

(No Model.)

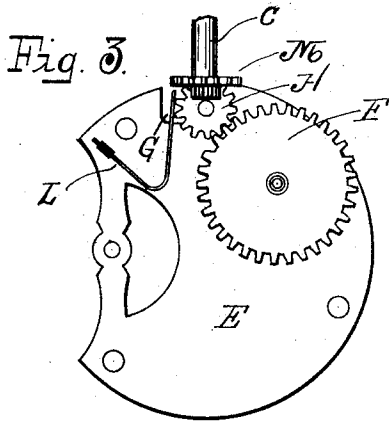
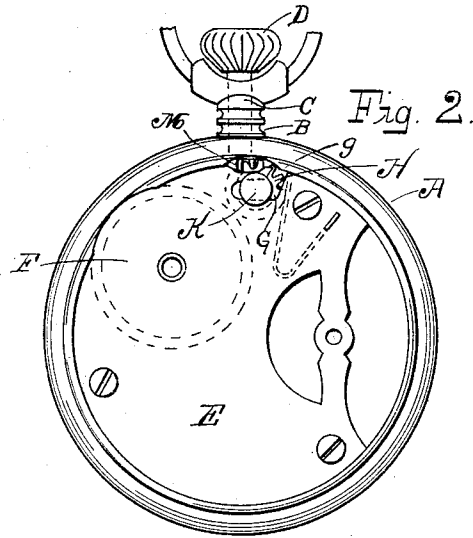
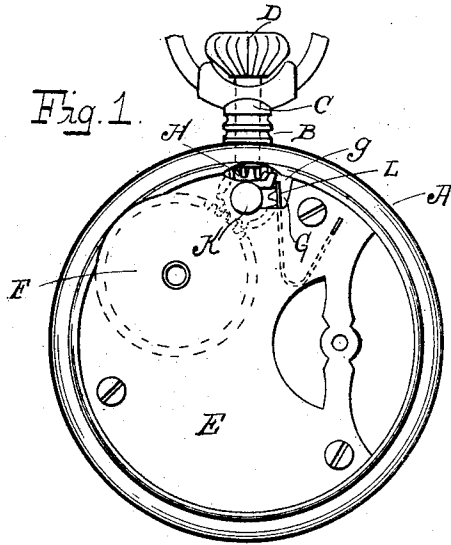
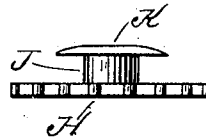


Fig. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

WILSON E. PORTER, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO THE
NEW HAVEN CLOCK COMPANY, OF NEW HAVEN, CONNECTICUT, A COR-
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STEM-WINDING WATCH.

SPECIFICATION forming part of Letters Patent No. 705,703, dated July 29, 1902.

Application filed January 22, 1902. Serial No. 90,789. (No model.)

To all whom it may concern:

Be it known that I, WILSON E. PORTER, of the city and county of New Haven and State of Connecticut, have invented a new and useful Improvement in Stem-Winding Watches, of which the following is a full, clear, and exact description when taken in connection with the accompanying drawings, which form a part thereof, and in which—

10 Figure 1 represents a top view of the movement-plate and associated parts; Fig. 2, a similar view, the intermediate wheel being shown as disengaged from the winding-train; Fig. 3, a bottom view of the plate, showing 15 parts in the same position indicated in Fig. 1; and Fig. 4, an enlarged detail view in elevation of the intermediate wheel and its post.

In all figures similar letters of reference represent like parts.

20 This invention relates to an improvement in stem-winding watches, and has for its object the production of a simple, durable, and effective construction the parts of which are easily assembled and easily separated, while 25 efficient in operation.

The invention consists of the details of construction and combination of parts set forth and claimed hereinafter.

Referring to the drawings for a more particular description, the parts designated by 30 the letter A represent the case, B the pendant attached thereto, and C the rotary stem of the pendant, to which is secured the crown D.

35 E represents the movement or supporting plate, upon which is mounted the wheel F of the winding-train. In the movement-plate E is formed a slot G, extending to the periphery of the plate, so that one end *g* is open. 40 An intermediate wheel H is mounted on one end of the post J, on the opposite end of which is carried a flanged head or enlargement K. The diameter of the post J is such as to fit within the slot G, while the flanged 45 head and the intermediate wheel H overlap the edges of the slot, so as to prevent the lon-

gitudinal withdrawal of the post J. A light spring L is also mounted on the plate E, so that its free end extends across the mouth or open end *g* of the slot G. The other parts of 50 the watch may be of any suitable or well-known construction.

In assembling the watch the spring L is forced to one side to open the mouth *g* of the slot G, and the post J is inserted into the slot, 55 whereupon the spring L will bear upon the intermediate wheel H, forcing the post to the closed end of the slot, in which position the intermediate wheel H will engage the wheel F of the winding-train and at the same time 60 be engaged by a pinion M on the rotary stem C. The spring L being yielding allows the intermediate wheel H to be moved, under pressure, toward the open end of the slot, and upon the backward movement of the rotary 65 stem C such pressure is exerted on the intermediate wheel H and the wheel is withdrawn from engagement with the winding-train F. The slot G is of sufficient length to permit the intermediate wheel H to be moved toward its 70 open end and disengaged from the wheel F of the winding-train without the post J being forced entirely out of the slot. The spring L performs the double function of retaining the post J within the slot and also holding the 75 intermediate wheel H normally in engagement with the wheel F of the winding-train.

Having now described my invention, which may vary somewhat without departing from the spirit thereof, what I claim, and desire to 80 secure by Letters Patent, is—

1. In a watch, the combination with the movement or supporting plate, having a slot extending to its periphery; of a wheel mounted on a post, which post is adapted to fit with- 85 in said slot, and is prevented from longitudinal withdrawal therefrom; and a spring closing the open end of said slot, and normally tending to force said post toward the closed end of said slot, substantially as described. 90

2. In a watch, the combination with a movement or supporting plate, having a slot ex-

tending to its periphery; of a winding-train
mounted on said plate; a rotary stem; a wheel
mounted on a post, and when in position ac-
tuated by said stem, said post being adapted
5 to fit within said slot, and being prevented
from longitudinal withdrawal therefrom; and
a spring closing the open end of said slot, and
yieldingly holding said wheel in engagement

with said winding-train, substantially as de-
scribed. 10

In witness whereof I have hereunto set my
hand on the 18th day of January, 1902.

WILSON E. PORTER.

Witnesses:

EUGENE CARTIER,

M. E. SMITH.