

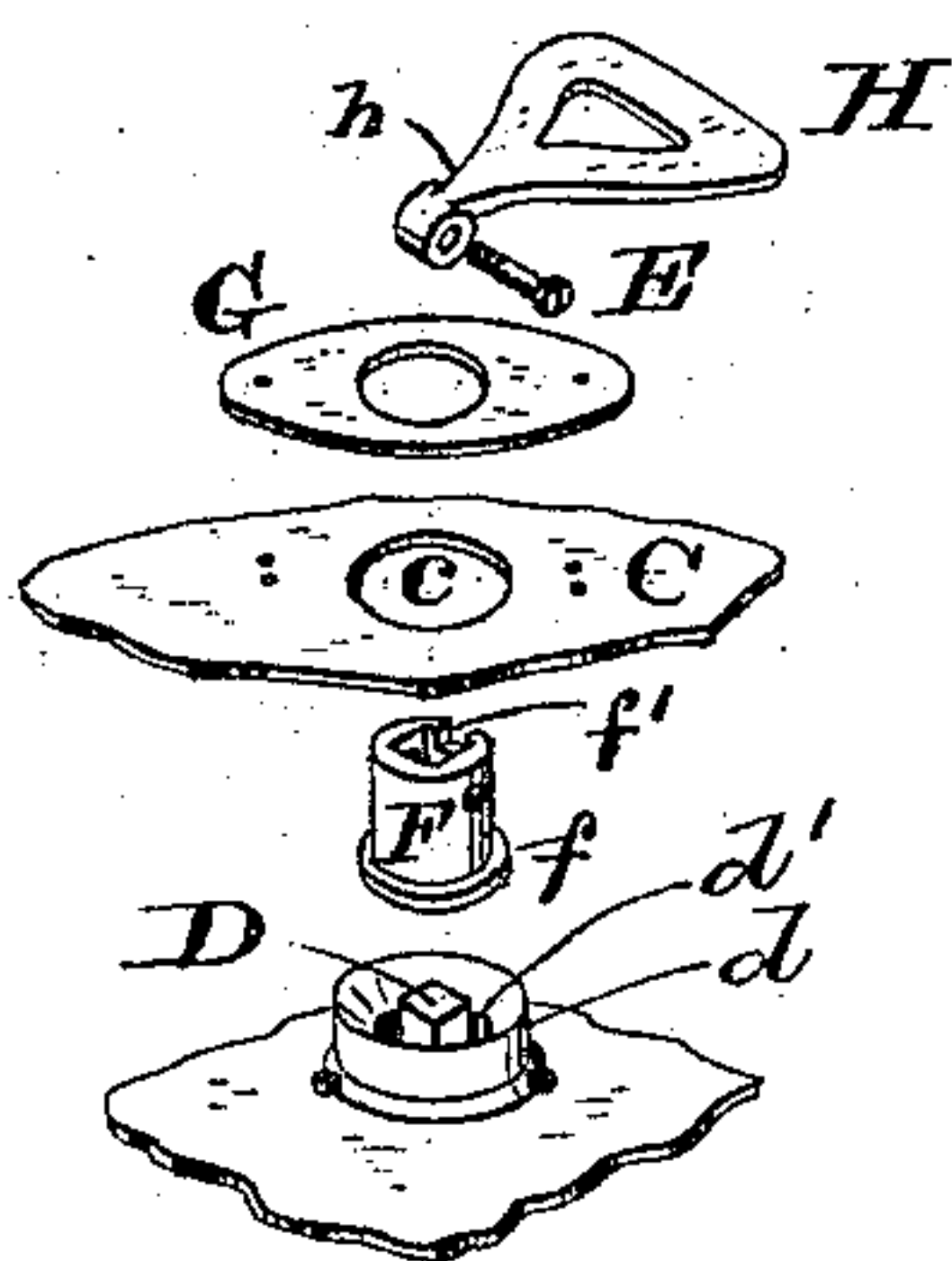
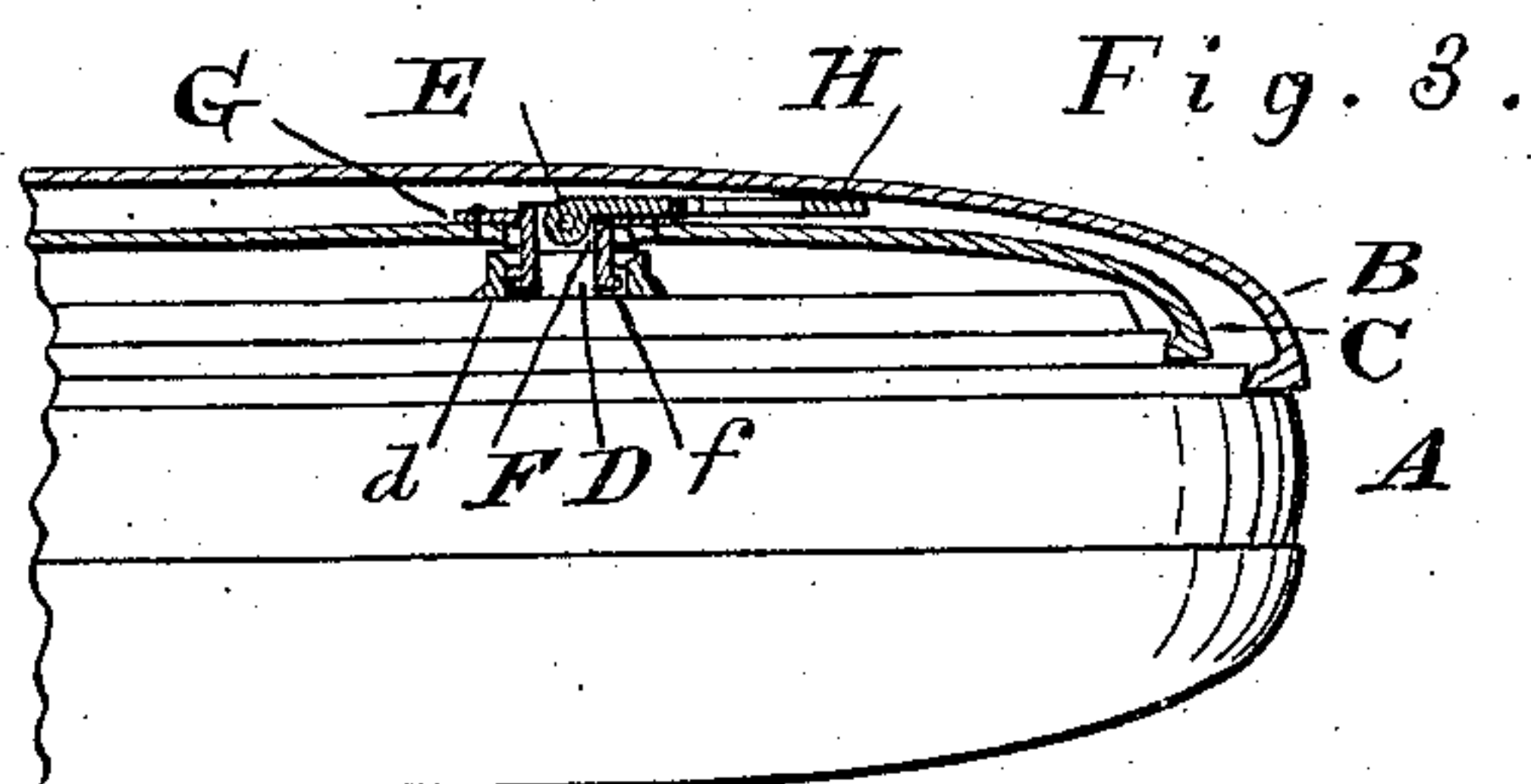
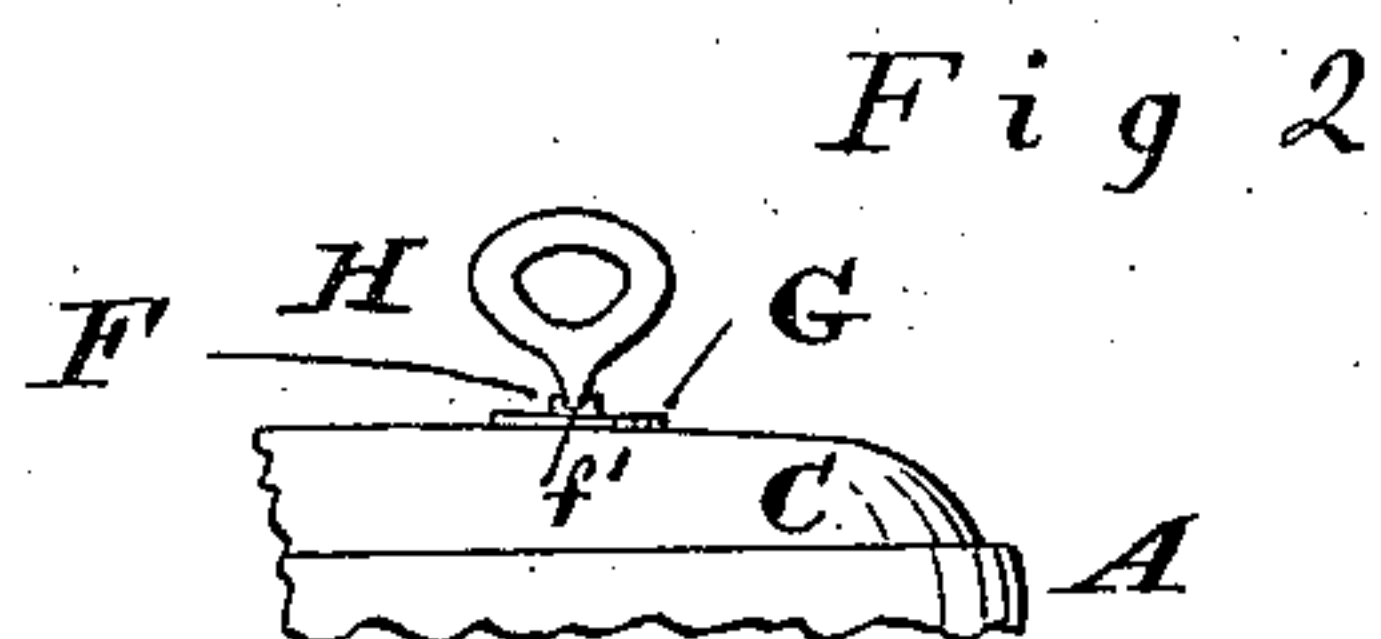
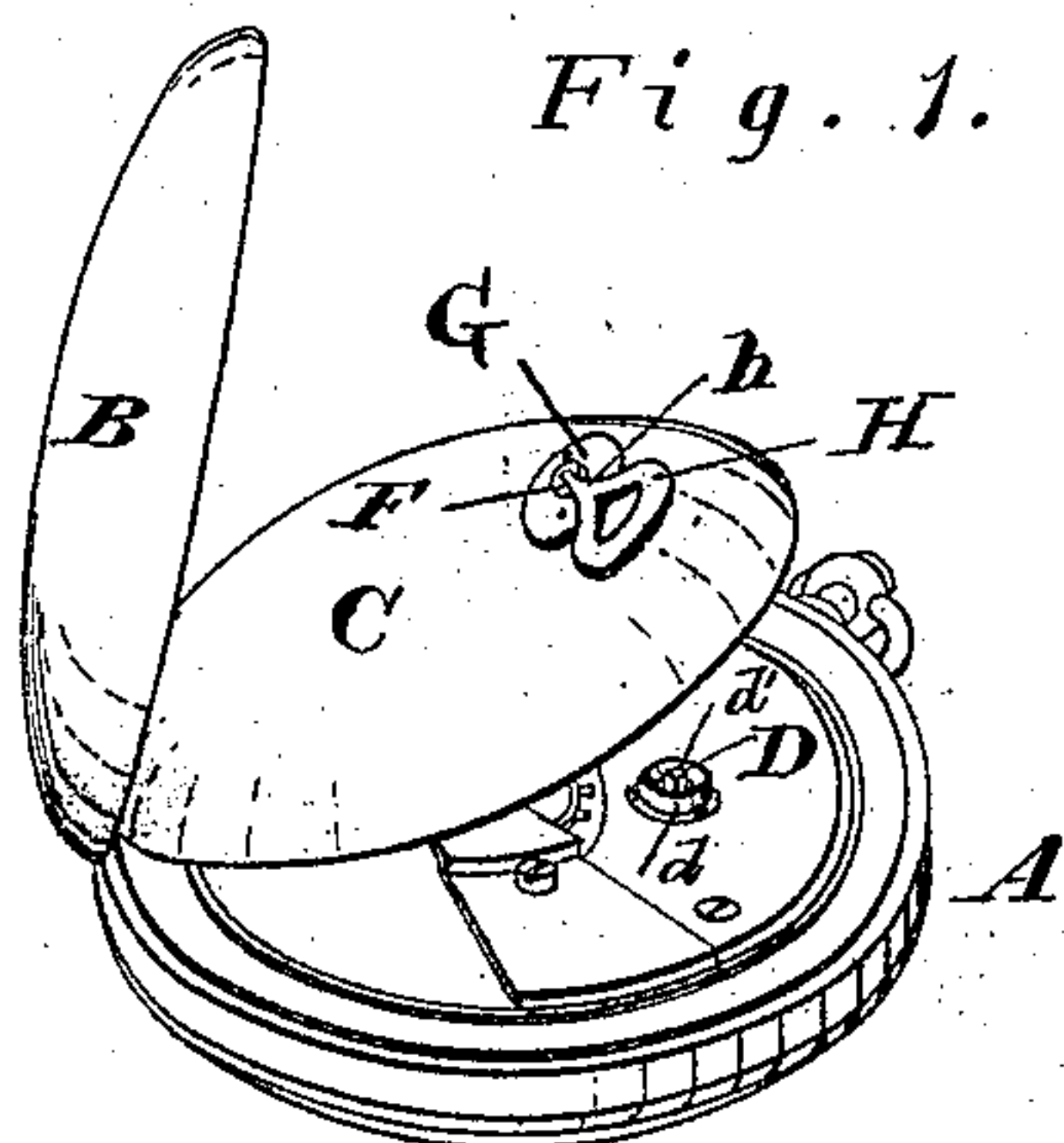
(No Model.)

C. W. HARMAN & H. G. SKIDMORE.

WATCH WINDING DEVICE.

No. 294,466.

Patented Mar. 4, 1884.



Attest:

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UNITED STATES PATENT OFFICE.

C. WESLEY HARMAN AND HORACE G. SKIDMORE, OF CINCINNATI, OHIO.

WATCH-WINDING DEVICE.

SPECIFICATION forming part of Letters Patent No. 294,466, dated March 4, 1884.

Application filed November 21, 1883. (No model.)

To all whom it may concern:

Be it known that we, C. WESLEY HARMAN and HORACE G. SKIDMORE, both of Cincinnati, Hamilton county, Ohio, have invented
5 a new and useful Winding Attachment for Watches, of which the following is a specification.

Our invention relates to an improvement in those devices in which the winding-key is attached to the inner back; and it consists in the construction hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of a watch embodying our
15 invention, the backs being shown partly lifted. Fig. 2 is an enlarged edge view, showing the handle elevated for use as a winder. Fig. 3 is an enlarged section, showing the handle folded. Fig. 4 shows the operative parts detached.
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A may represent any key-winding watch, B being the outer and C the inner back or cap.

D represents a customary winding-arbor. *d* is the guard thereto, forming a funnel, *d'*,
25 around the arbor.

c represents an orifice in the inner back, to permit insertion of the key-pipe.

F is a short winding-pipe, whose bore fits the arbor. A flange, *f*, prevents said pipe
30 rising through a washer, G, to a greater distance than sufficient for attachment, as shown, of handle H, whose stem *h* occupies a recess, *f'*, in the pipe when in normal inoperative folded position. The orifice *c* in the inner
35 back is preferably made somewhat larger than the winding-pipe, to allow of adjustment of the washer in alignment with the arbor. The washer-orifice, on the contrary, should snugly inclose the winding-pipe. Two or more pairs
40 of screw-holes in the back may permit the application of the case to divers makes of watch-movements. The washer is fastened

to the back by means of small screws. The attachment of the handle H to the winding-pipe is by means of a screw-threaded pin, E, 45 so as to make a hinge-coupling. The flattened form of the handle H enables it—when in the erect position shown in Fig. 2—to be used for winding purposes, and—when in the folded condition shown in Figs. 1 and 3— 50 causes it to occupy so little room as not to interfere with the closure of the outer back in the usual way.

We claim as new and of our invention—

1. A winding attachment for watches, consisting of a short winding-pipe having a retaining-flange, a recess in one side of the pipe, a handle fitted in the upper end of the pipe, whose shank occupies the recess when folded, and pin to hinge the handle to the pipe, as 60 set forth.

2. The combination, with a winding-arbor having a guard-plate to form a funnel surrounding the arbor and an inner back having an orifice, of a short pipe having a flange 65 to occupy the funnel and retain the pipe in the inner back, and a handle hinged directly to the short pipe on the outside of the inner back, as set forth.

3. The winding attachment consisting of a 70 short winding-pipe, F, having a flange, *f*, and a handle, H, hinged within the pipe, in combination with a winding-arbor, an inner back having an orifice around the pipe, and a washer, G, having an orifice snugly fitting the pipe and 75 securing the latter to the inner back, as set forth.

In testimony of which invention we hereunto set our hands.

C. WESLEY HARMAN.
HORACE G. SKIDMORE.

Attest:

GEO. H. KNIGHT,
S. S. CARPENTER.