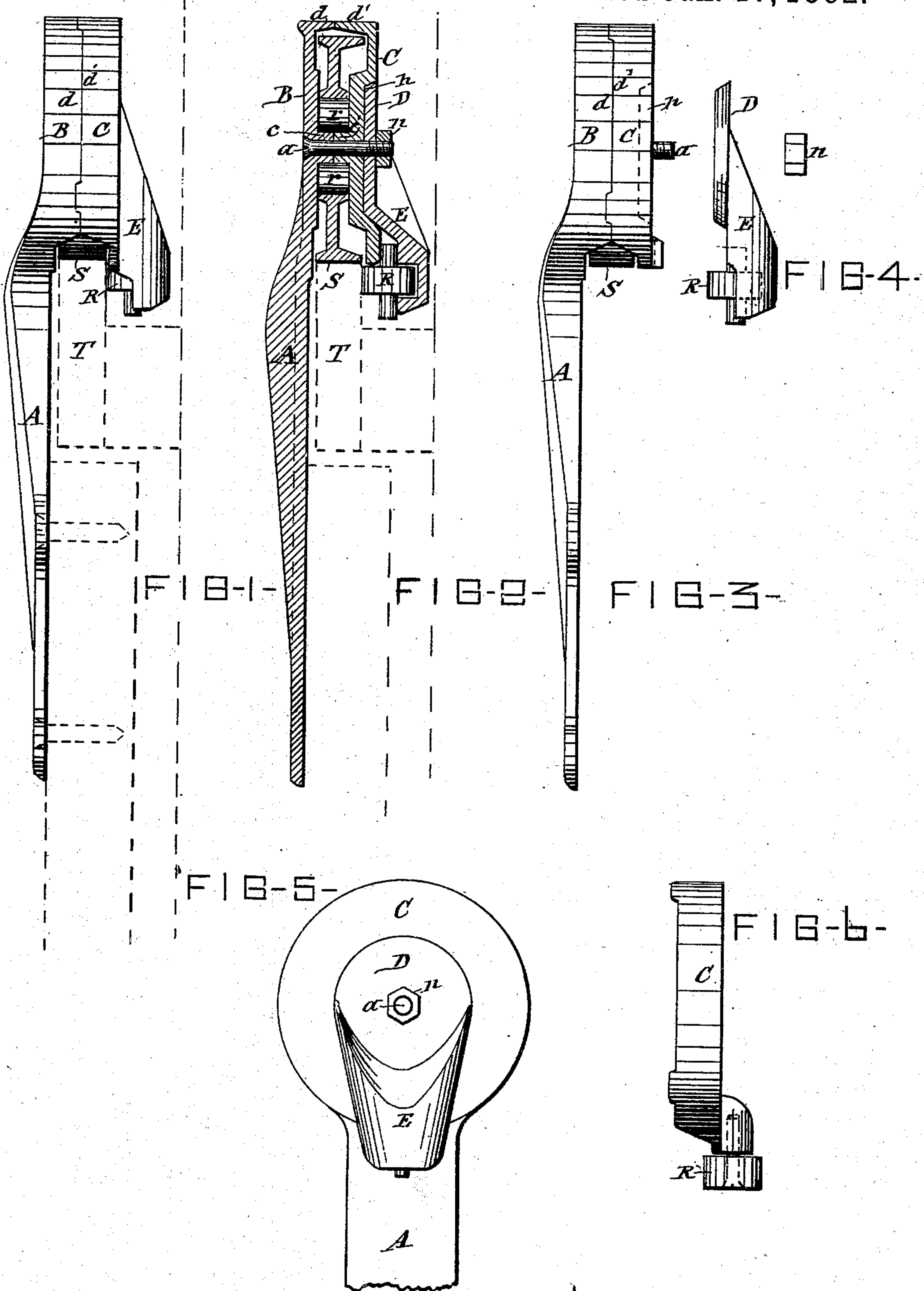


(No Model.)

E. U. SCOVILLE.
DOOR HANGER.

No. 252,527.

Patented Jan. 17, 1882.



WITNESSES=
Charles Garlick
Clow & Raymond

INVENTOR=
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UNITED STATES PATENT OFFICE.

ELIJAH U. SCOVILLE, OF MANLIUS, NEW YORK.

DOOR-HANGER.

SPECIFICATION forming part of Letters Patent No. 252,527, dated January 17, 1882.

Application filed November 10, 1881. (No model.)

To all whom it may concern:

Be it known that I, ELIJAH U. SCOVILLE, of Manlius, in the county of Onondaga, in the State of New York, have invented new and useful Improvements in Door-Hangers, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates more particularly to the class of door-hangers which have a plain-faced sheave or carrying-wheel; and it consists essentially in the combination and arrangement of a hanger-strap having a plain-faced sheave or carrying-wheel journaled thereon, a plate sustained at the rear of the sheave by the hanger-strap, and a guide-roller journaled on said back plate and engaging the rear of the track-rail, all as hereinafter more fully described, and specifically set forth in the claims.

In the annexed drawings, Figure 1 is a side view of a door-hanger provided with my improvements. Fig. 2 is a vertical section of the same. Figs. 3 and 4 are side views, illustrating one of the means of connecting the guide-roller to the back plate of the hanger. Fig. 5 is a rear view of my improved door-hanger; and Fig. 6 illustrates modifications in the connection of the guide-roller with the back plate or cap of the hanger.

Similar letters of reference indicate corresponding parts in all the figures.

A denotes the hanger strap or shank by which the door hanger is secured in the ordinary manner to the upper portion of the door to be hung. The upper end of said strap is provided with or formed into a circular head, B, which has a central hub, *c*, and a peripheral flange, *d*, which hub and flange are met by and fitted to a similar hub, *c'*, and flange *d'* on a circular cap or back plate, C, which is secured to the head B by a bolt, *a*, passing transversely through the said parts at the center of their aforesaid hubs, and having a nut, *n*, on its end, as shown.

S represents the sheave or carrying-wheel of the hanger, said sheave having a plain-faced tread, and being housed by the case formed by the head B and cap C, and being mounted either directly on the hubs *c* *c'* or on anti-friction rollers *r* *r*, arranged around said hubs, as shown in the annexed drawings. The base of the head B and cap C is deprived of the peripheral flange, so as to produce in the bottom

of the housing or case of the sheave an opening through which the tread of the sheave protrudes and is brought to bear on the track-rail T. The sheave S is guided on the track-rail by a roller, R, which may be journaled either directly on the base of the back plate or cap, C, as illustrated in Fig. 6 of the drawings, or indirectly on the same, as shown in Figs. 2, 3, and 4, and in the manner hereinafter described, said roller being thus brought to bear against the rear face of the track-rail, at or near the upper edge thereof, and, in conjunction with the bearing of the hanger-strap, against the front face of the track-rail, guiding the sheave on top of the said track-rail.

In order to facilitate the molding and casting of the aforesaid parts, and also the repairs of the said guide-roller, I employ a supplemental back plate, D, which is fitted into a recess, *h*, in the back of the cap or back plate C, and detachably secured thereto by the bolt *a*, before described, said supplemental back plate having a downward-extending shank, E, the lower extremity of which is provided with two bearings, in which is journaled the roller R, as best seen in Figs. 2 and 4 of the drawings.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the hanger A B, cap C, inclosed sheave S, and bolt *a*, of the supplemental plate D, secured to the cap by the bolt *a*, and having journaled on its lower end the roller R, arranged to engage the upper rear edge of the track, substantially as shown.

2. In combination with the hanger strap A, provided with the head B, the sheave S, and bolt *a*, the cap C, provided with the recess *h*, and the supplemental plate D, fitted to said recess, and having the downward-extended shank E, with the roller R journaled thereon and brought to bear against the rear upper edge of the track, substantially as described and shown.

In testimony whereof I have hereunto signed my name and affixed my seal, in the presence of two attesting witnesses, at Syracuse, in the county of Onondaga, in the State of New York, this 8th day of November, 1881.

ELIJAH U. SCOVILLE. [L. S.]

Witnesses:

K. HEY,

WM. C. RAYMOND.