D. Hussey. Boddin Flyer.

N°40,169.

Pateste a Oct. 6, 1863.

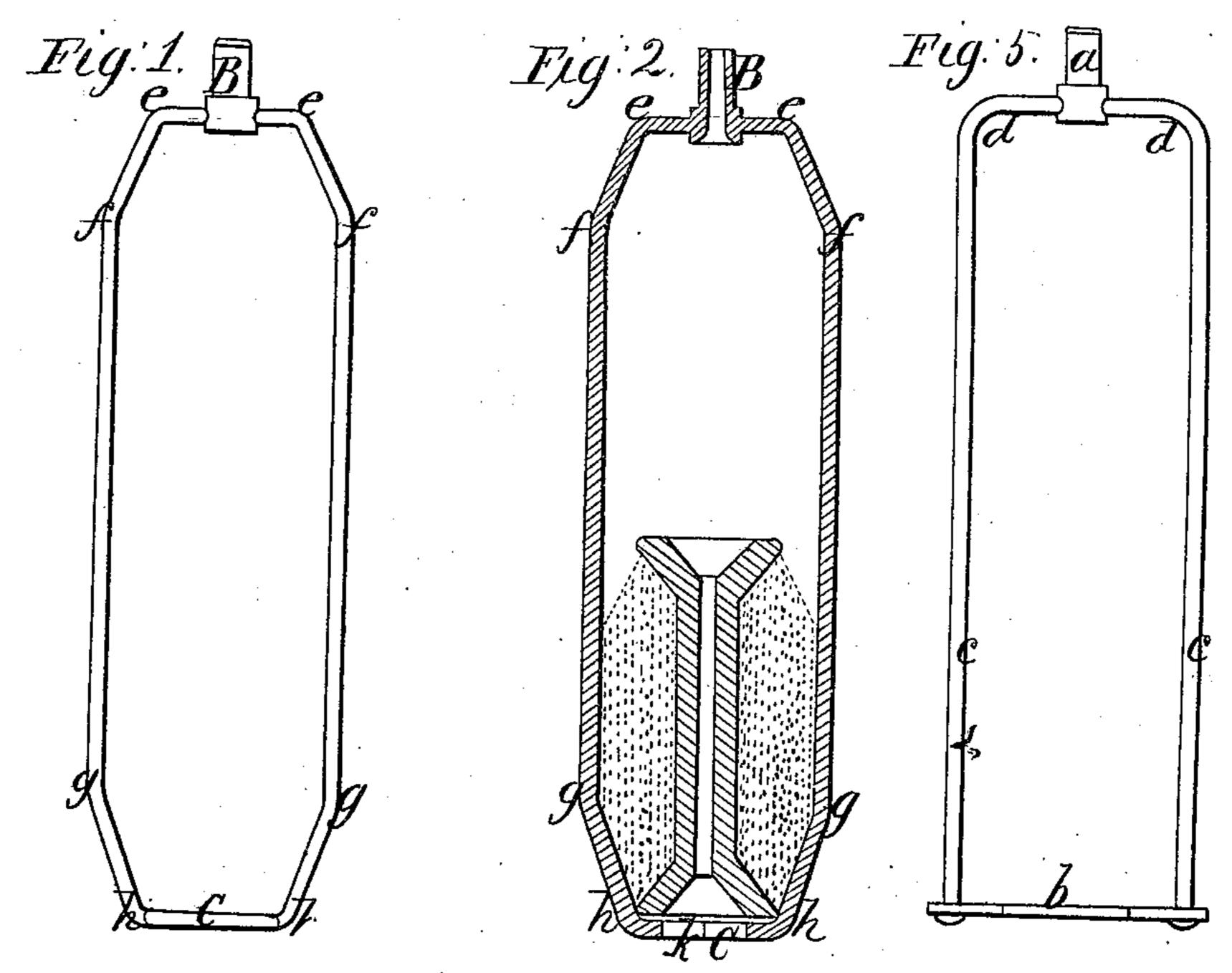


Fig.3.

Fig.4.

gitag:h.

Feg. 6.

Witnesses;

Rach Hach

Inventor;

Daniel Hussey for it's atterny

United States Patent Office.

DANIEL HUSSEY, OF NASHUA, NEW HAMPSHIRE.

IMPROVEMENT IN FLIERS FOR SPINNING-MACHINES.

Specification forming part of Letters Patent No. 40,169, dated October 6, 1863.

To all whom it may concern:

Be it known that I, Daniel Hussey, a resident of Nashua, in the county of Hillsborough and State of New Hampshire, have invented an Improved Bobbin-Flier; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a side view of the said flier; F g. 2, a vertical section of it and its bobbin as filled with yarn. Fig. 3 is a top view, and Fig. 4 a bottom view, of such flier. Fig. 5 is a side view, and Fig. 6 a bottom view, of a flier of the ordinary form or construction.

In the last two figures referred to the flier is shown as composed of a neck, a, and base b, united by two legs, cc, the said base b being a perforated plate or piece of metal separate from the legs, and having their lower ends passed through and riveted to it. Besides this each leg has but one flexure or bend, as shown at d.

In my improved flier, as represented in Figs. 1, 2, 3, and 4, each leg has four flexures or bends, efgh, in that part of it which extends from the eye B to the foot or base part C, the portion ef, fg, or gh between each two next adjacent flexures being straight, or substantially so, as shown in the drawings. In forming the base part C, which receives the head of the whirl, the two legs are bent in the shape shown in Fig. 4, are lapped on one another, and soldered or otherwise suitably connected together where they are in contact—viz., at i i.

The bend of the flier-leg between the connections *i i* is to be such as to form the proper opening, *k*, for the reception of and fitting to the prismatic head of the driving-whirl, whether such head be square or otherwise shaped in its horizontal section. By this construction of the flier a separate base or foot piece, such as shown at *b* in Figs. 5 and 6, becomes unnecessary, and the flier is rendered very much stronger or less liable to break, particularly at the connection of the leg and base.

The two parallel portions f g of the legs, by reason of being shorter than the parallel portions of the legs of the common flier, as shown in Figs. 5 and 6, do not spring outward so much as the latter while under the action of centrifugal force generated by the rapid revolutions of the flier while in use.

The improved flier in question is intended for a double-coned bobbin to have roving formed thereon in manner as described in the United States Patent No. 36,782, granted to me on the 28th day of October, A. D. 1862.

I claim—

My improved flier made substantially as described—viz., with the flexures e f g h in each leg, or with the same, and having the legs lapped, formed, and connected at the base substantially as specified.

DANIEL HUSSEY.

Witnesses:

R. H. Eddy, F. P. Hale, Jr.