

T. WESTLEY & T. R. BEAUMONT.
SPINNING FLIER.

No. 62,173.

Patented Feb. 19, 1867.

Fig. 1.

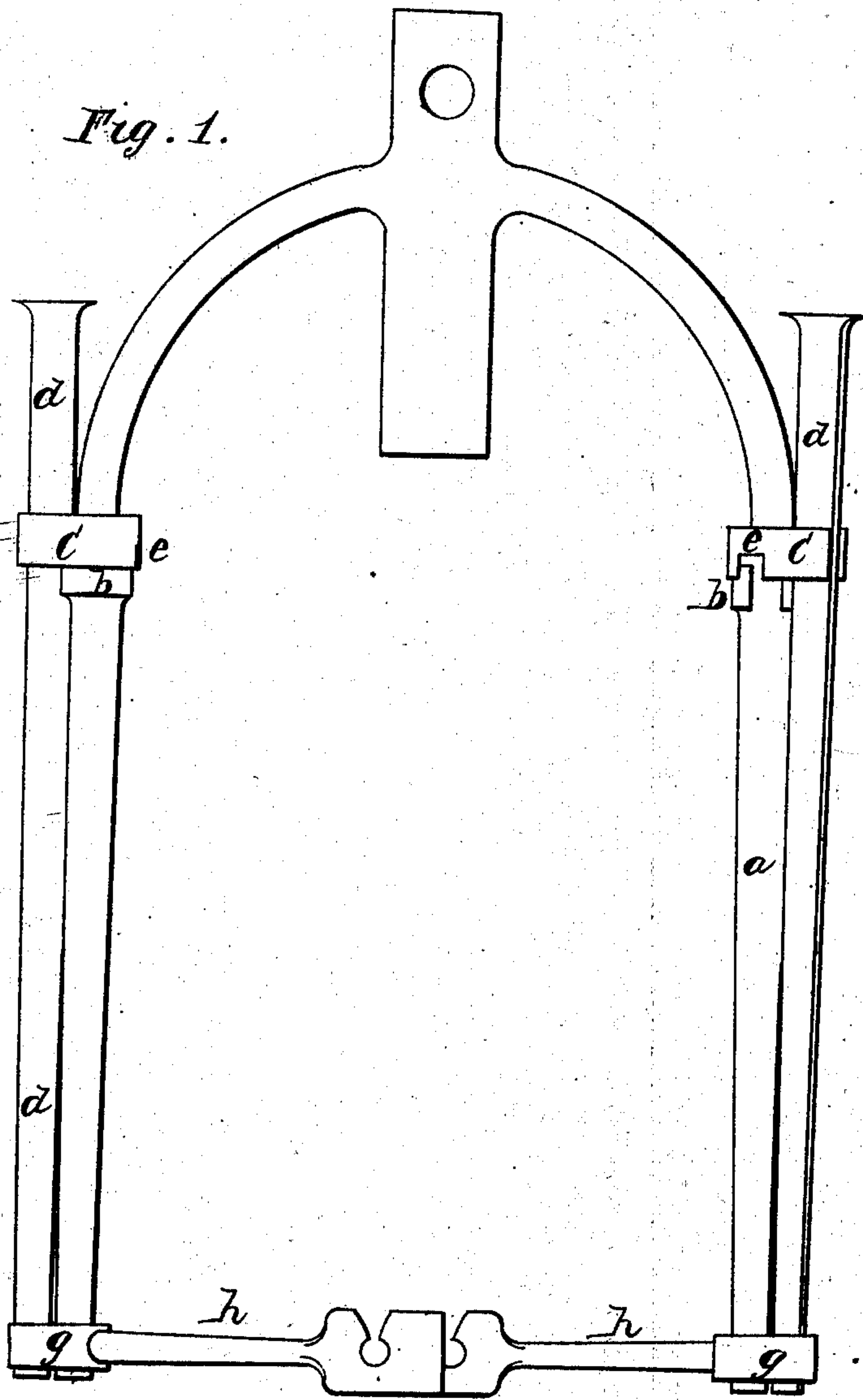
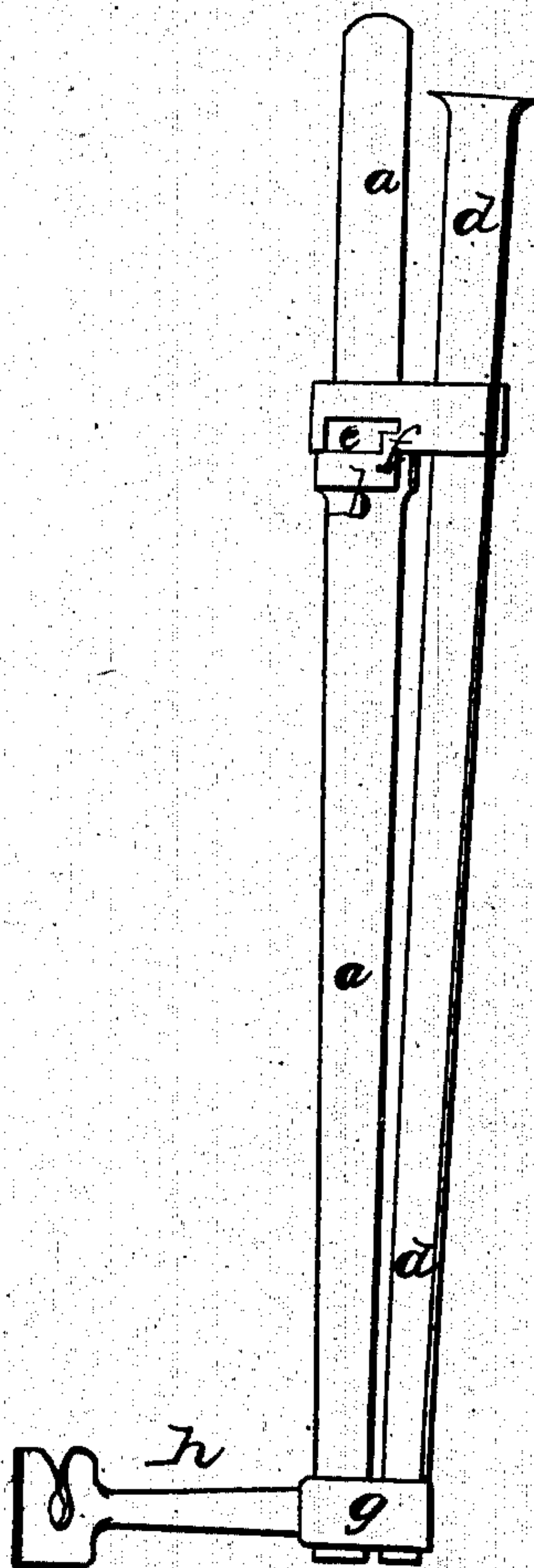


Fig. 2.



Witnesses

Wm. Albut Smith

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By their Atty
H. H. Henshaw

United States Patent Office.

THOMAS WESTLEY AND THOMAS RICHARD BEAUMONT, OF PRESTON,
ENGLAND.

Letters Patent No. 62,173, dated February 19 1867.

IMPROVEMENT IN SPINNING-FLYERS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that we, THOMAS WESTLEY, machinist, THOMAS RICHARD BEAUMONT, cotton spinner, both of Preston, in the county of Lancaster, kingdom of Great Britain and Ireland, have invented certain new and useful Improvements in Flyers for Slubbing, Roving, and Spinning Cotton and other fibrous substances; and we do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

Our invention relates to the construction of flyers with solid legs, to be used for spinning, roving, and slubbing cotton or other fibrous substances, in place of the ordinary tubular leg or other presser flyers.

The flyer is made with solid legs, and at or about the top or the straight part of each leg we form a collar, or portion of a collar, supporting a bearing capable of revolving or partially revolving round the leg. This bearing carries the upper end of a split tube, and its motion round the leg of the flyer is limited by a notch in the lower side of the bearing, working against a projection on the collar, or by a pin or other similar means. The lower end of the split tube is fixed in and supported by the heel of the "presser-arm," which is also capable of revolving partially round the lower extremity of the solid leg of the flyer, the split tubes, with their bearings, acting centrifugally, (upon the revolution of the spindle and flyer,) thus cause the presser-arm to bear against the bobbin with the necessary pressure. The upper end of the tube is formed with a bell mouth. In some instances we propose to support the tube and presser-arm at the bottom of the leg by means of a screw and washer, so contrived as to be able to lock the presser-arm and tube at any convenient angle.

In order to enable others skilled in the art to make and use our invention, we will now proceed to describe more in detail its construction and operation. On reference to the accompanying drawing, which forms a part of this specification—

Figure 1 represents a side view of a flyer made according to our invention.

The legs *a a* of the flyer are made solid; and at or about the top of the straight part of each leg we form a collar or portion of a collar, *b b*, supporting the bearing *c c*, which is capable of partially revolving round the leg. This bearing *c c* carries the upper end of a split tube, *d d*, (the top of which is bell mouthed,) its motion round the leg *a a* of the flyer being limited by a notch, *e e*, in the lower side of the said bearing, working against a tooth or projection, *f f*, on the upper side of the collar *b b*. This is more clearly shown in—

Figure 2, which is an inside view of one of the legs of the flyer with its split tube attached.

The lower end of the split tube *d d* is supported by the heel *g g* of the pressure-arm *h h*.

We claim as our invention—

Attaching split tubes to the legs and presser-arms of solid leg flyers, substantially in the manner and for the purposes hereinbefore set forth.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses this thirteenth day of November, one thousand eight hundred and sixty-six.

THOMAS WESTLEY,
THOMAS R. BEAUMONT.

Witnesses:

ROBT. W. DILWORTH, }
JNO. PASHLEY. } *Clerks to Messrs. Hannay, Jevons & Ryley, Solicitors, London.*