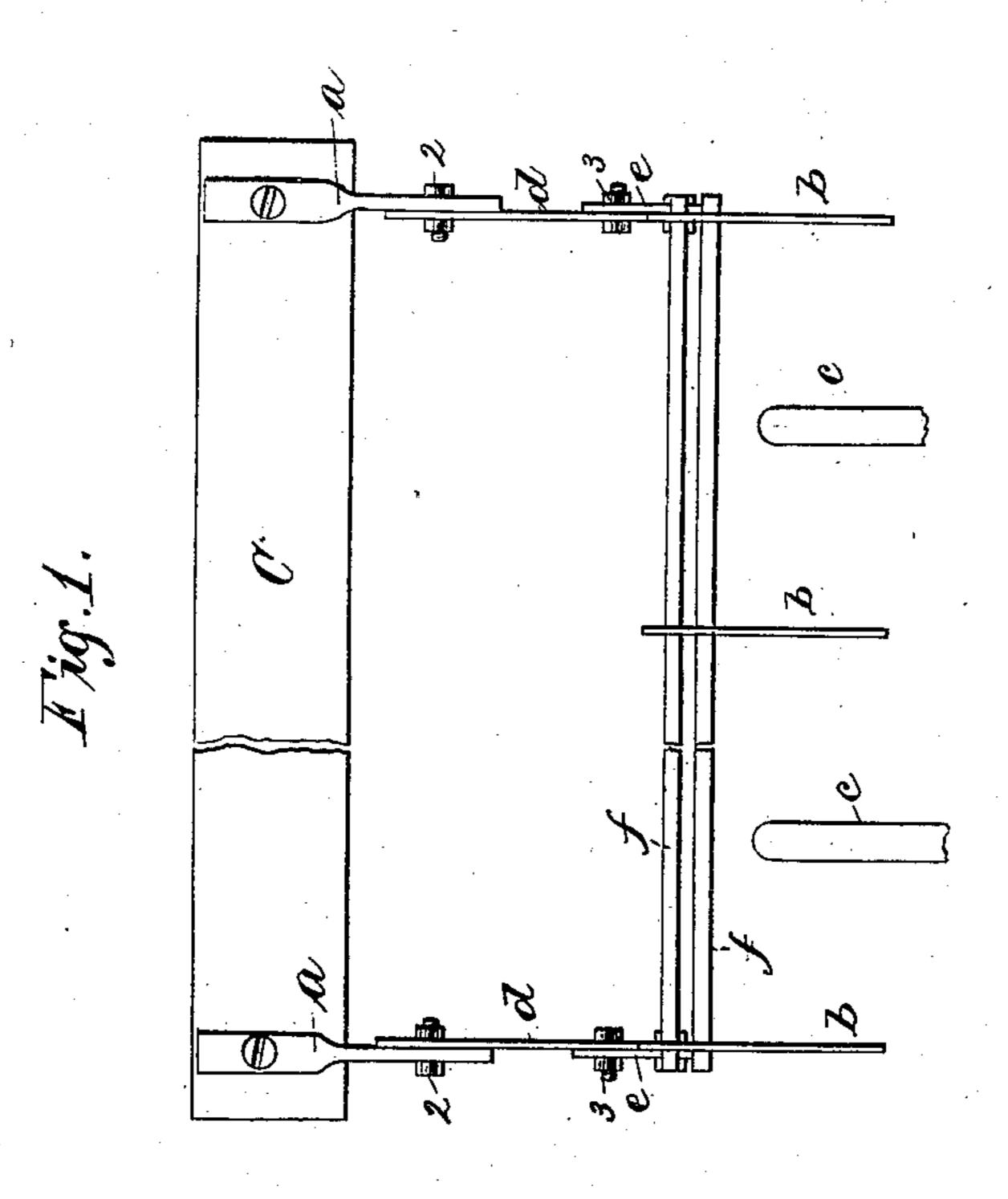
(No Model.)

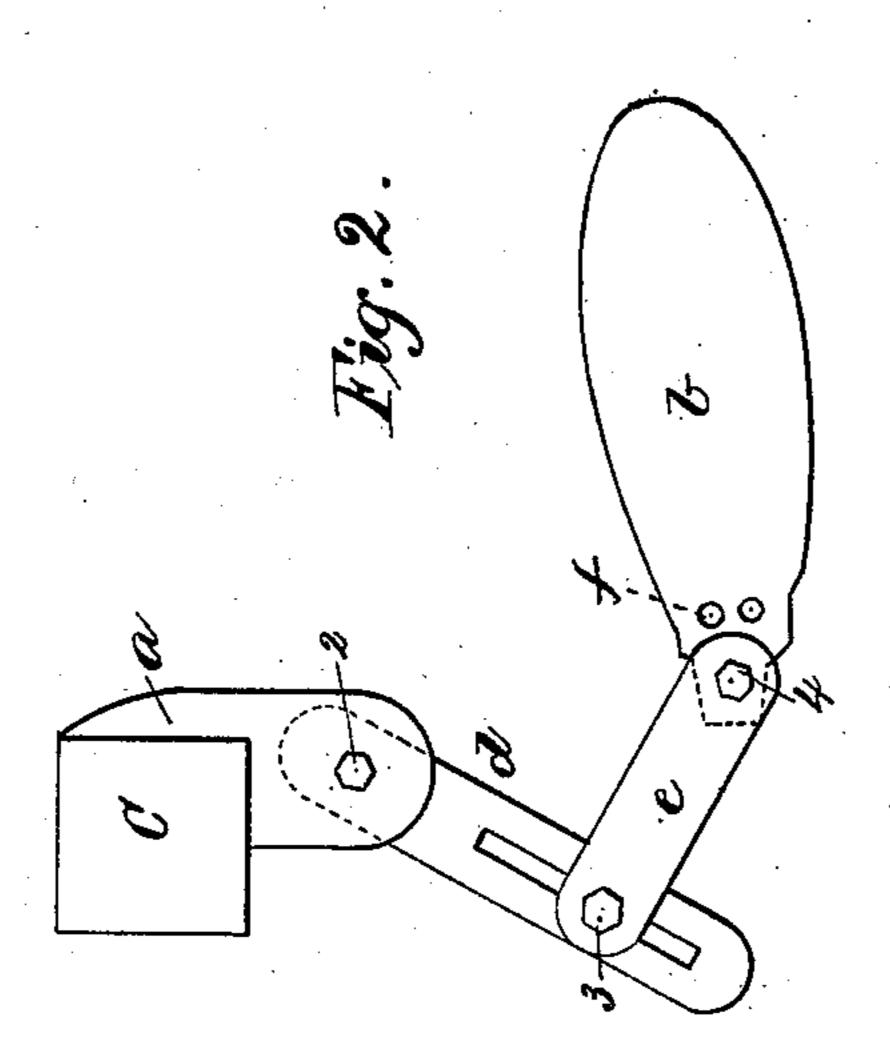
H. E. SWIFT.

THREAD GUARD FOR SPINNING MACHINES.

No. 253,321.

Patented Feb. 7, 1882.





Witnesses. B. J. Noyes. Folw & Rrinkers

Inventor. Horace & Swift, by brosby Arrigony,

United States Patent Office.

HORACE E. SWIFT, OF HOPEDALE, MASSACHUSETTS, ASSIGNOR TO GEORGE DRAPER & SONS, OF SAME PLACE.

THREAD-GUARD FOR SPINNING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 253,321, dated February 7, 1882.

Application filed September 5, 1881. (No model.)

To all whom it may concern:

Be it known that I, Horace E. Swift, of Hopedale, Worcester county, State of Massachusetts, have invented an Improvement in Thread-Guards for Spinning-Machines, of which the following description, in connection with the accompanying drawings, is a specification.

This invention in thread-guards adapted to be applied to ring-spinning frames to prevent the yarns being wound upon the bobbins of adjacent spindles from striking together and being broken has for its object to so support the said thread-guards that the rod or rods carrying them may be readily adjusted both vertically and toward or from the ring-rail.

My invention consists essentially in a series of thread-guards and a rod or rods to support them, combined with pivoted or jointed arms or levers and a suitable support therefor, whereby the thread-guards may be adjusted simultaneously both vertically and horizon-

tally with relation to the ring-rail.

This invention is an improvement on the class | 25 of thread-guards described in United States Patent No. 202,420, to which reference may be had. In that patent the thread-guards are made adjustable on a fixed rod held by depending brackets connected with a rigid part of 30 the spinning-frame, preferably the roller-beam. To adapt the devices shown in that patent to spinning-frames made by different builders, it is necessary to keep on hand a great variety of brackets of different lengths and curvatures 35 to enable the thread-guards to be placed in proper position with relation to the position of the ring rail of each different make of machine, as the position of the ring-rail is greatly varied, according to the particular notions of 40 the builders. By supporting the threadguards as herein provided for they may readily be raised or lowered, also moved toward and from the rail laterally. The threadguards may be made adjustable on their sup-45 porting-rods in any known way, preferably as shown in an application of E. S. Stimpson, No. 40,667, filed August 25, 1881; but I desire it to be understood that I do not claim anything shown by the said Stimpson.

Figure 1 represents in front elevation a sufficient portion of a ring-spinning frame to illustrate the application of my invention, and Fig. 2 an end elevation of Fig. 1.

The bar C, intended to be the same as in

the patent referred to, has connected with it 55 the brackets a, which serve to support the jointed or swinging arms that sustain the endmost thread-guards b of the series of threadguards. These endmost guards are herein shown as made to receive and hold the rods 60 f, on which are placed the intermediate guards of the series. These guards of the entire series are adapted to be extended between the bobbins c of adjacent spindles of usual construction. These arms are shown as composed 65 each of two members, de. The member d is held in place upon the bracket a by a bolt, 2, and nut, which may be turned when it is desired to adjust the position of the said member about the said bolt. Member e is con- 70 nected with member d by means of a bolt and nut, 3, held in one and inserted through a slot in the other member, and the thread-guards are shown as attached to the outer ends of the members e by suitable bolts and nuts 4. 75 By loosening the said bolts and nuts 234 one or more of the members de and threadguards may be adjusted vertically and horizontally, or in a direction the resultant of both such adjustments, to place the said guards in 80 proper position with relation to the bobbins and spindles or ring-rail, and by tightening the said bolts and nuts the said parts may be securely held in their adjusted positions.

In the drawings, f represents rods or wires 85 to support the guards b; but such rods are not claimed

claimed.

1 claim—

Any desired number of thread-guards may be used in a series. I have shown but three, and parts of two bobbins.

The series of thread-guards b and their connecting-rods f and brackets a, combined with the pivoted or jointed arms or levers, whereby the thread-guards may be adjusted vertically or horizontally, as described, or in a direction the resultant of both, to thus place the thread-guards in the described position with relation to the bobbins or their spindles, for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HORACE E. SWIFT.

Witnesses:
F. J. DUTCHER,
GEO. F. DRAPER.