

No. 880,068.

PATENTED FEB. 25, 1908.

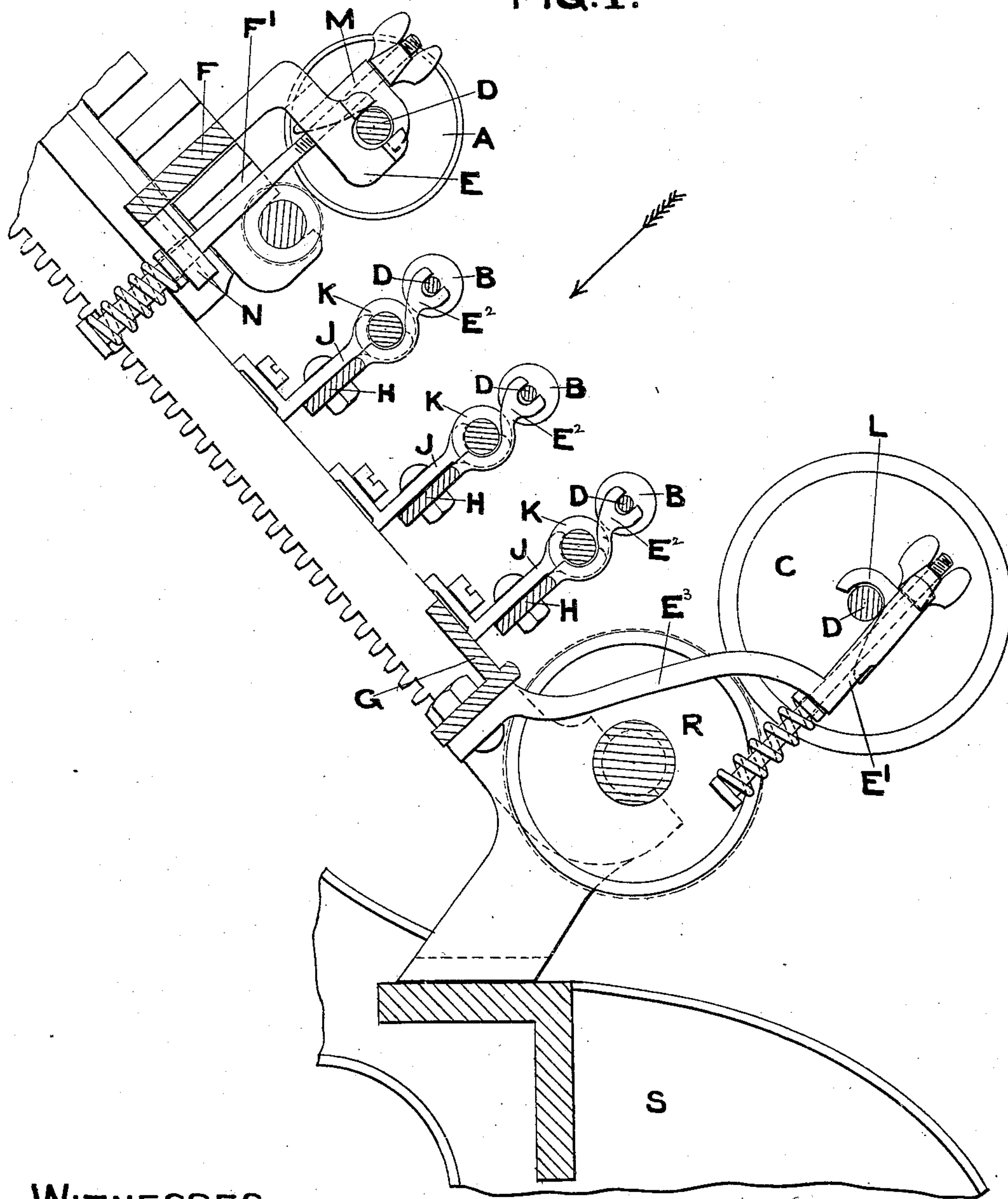
J. FARRAR.

SPINNING, DRAWING, ROVING, AND LIKE FRAME.

APPLICATION FILED JAN. 24, 1906.

2 SHEETS—SHEET 1.

FIG. 1.



WITNESSES

Alex Reed

Wilfred Alderson.

INVENTOR

Joseph Farrar

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Attorney.

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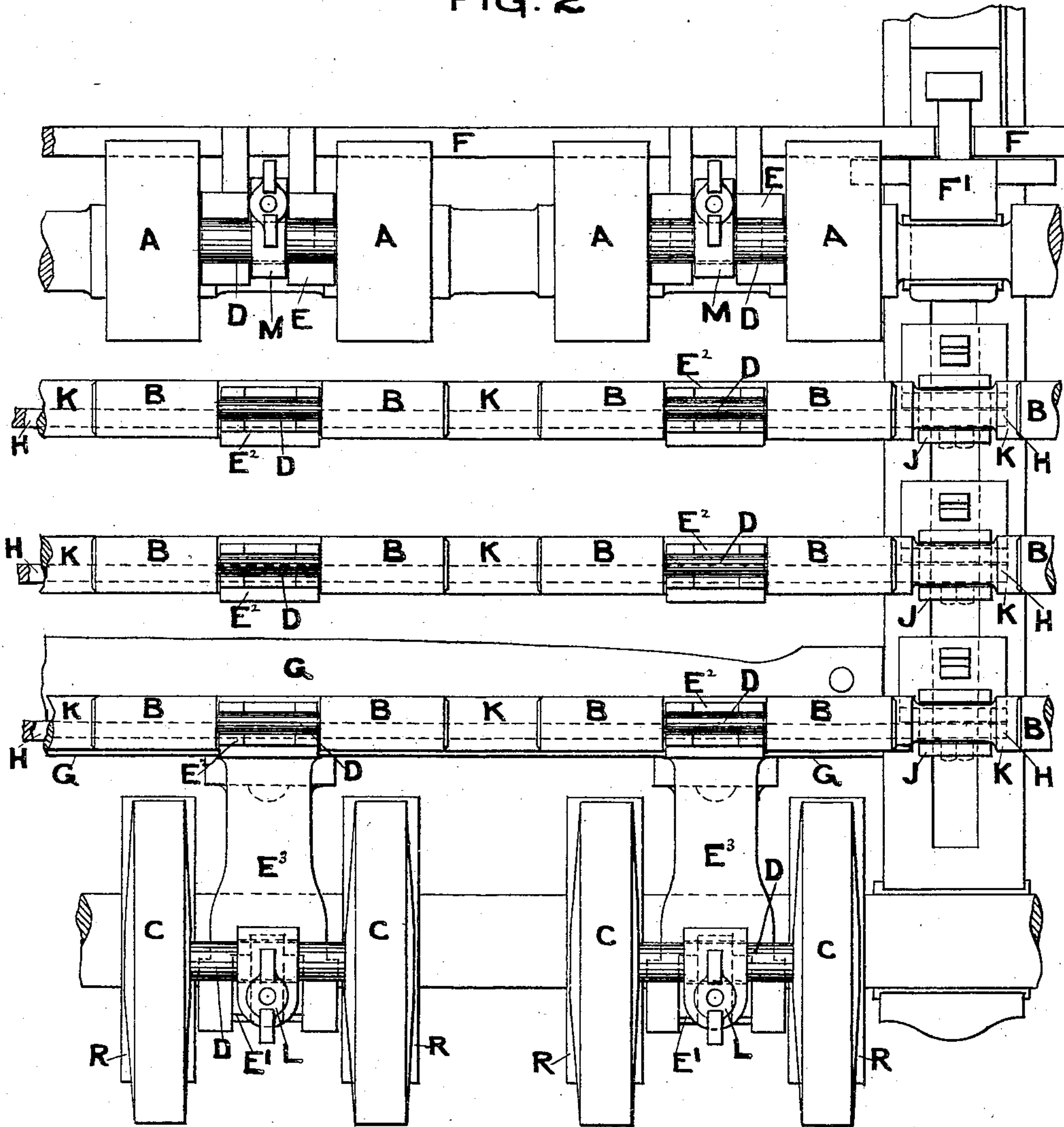
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2 SHEETS—SHEET 2.

FIG. 2



WITNESSES

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UNITED STATES PATENT OFFICE.

JOSEPH FARRAR, OF HALIFAX, ENGLAND.

SPINNING, DRAWING, ROVING, AND LIKE FRAME.

No. 880,068.

Specification of Letters Patent.

Patented Feb. 25, 1908.

Application filed January 24, 1906. Serial No. 297,587

To all whom it may concern:

Be it known that I, JOSEPH FARRAR, a subject of the King of Great Britain, residing at Halifax, in the county of York, England, have invented new and useful Improvements in and Relating to Spinning, Drawing, Roving, and Like Frames, of which the following is a specification.

This invention relates to the mounting of the top front rollers, the top back rollers, and the top carrier rollers, in spinning, drawing, roving and like frames. Hitherto these rollers had pivot ends which rested in or against nibs placed at each side of each pair of bosses on such top rollers, and upon which they revolved.

When passing the roving down from the back to the front rollers, it was necessary for the operative to thread the roving between the back rollers with the hand, from behind, and then guide the end of said roving between each pair of rollers and wait till the roving threaded itself through the same at a slow speed. Besides being a slow method, there was always considerable risk of accident to the operative.

The object of my invention is to simplify the construction of these frames at this part, and greatly facilitate the threading of the roving through the said rollers. In accomplishing this object, I dispense with the aforesaid pivot ends of the top rollers and top carriers, also the corresponding nibs supporting same, and mount the said rollers and carriers upon nibs centrally situated between the pair of bosses of such top rollers. These rollers and carriers rotate upon each side of their supporting nib, and their outer sides or ends being perfectly open and void of any encumbrance or impediment, an open space is left between each pair of top rollers and top carriers (extending from the back to the front rollers), along which the roving may be taken when being fed to said rollers.

When putting in a new roving, it is brought down from the back to the front through this open space and fed to the rollers sidewise, where it quickly works itself into the whole series simultaneously. By these means and in this manner, upon putting new rovings into a frame, all the rovings can be passed down and the frame got to work in much less time than is usually required, thereby greatly increasing the work of the frame, while the

risk of accident to the operative from this kind of work is reduced to a minimum.

Description of Drawings.

Figure 1 is a sectional side elevation of front, back, and carrier rollers of one side of a spinning frame, with my improvements applied. Fig. 2 is a view in the direction indicated by arrow, of a portion of a spinning frame shown at Fig. 1.

Similar letters of reference indicate corresponding parts throughout the several views.

According to my invention, I construct the top back rollers A, the top carrier rollers B, and the top front rollers C, without pivot ends, and with their bearing necks or shafts D centrally between the pairs of bosses of such rollers. These rollers are supported by nibs E (within which the aforesaid necks or shafts D rest) and rotate upon each side of their supporting nib, leaving their outer sides, or ends, free of any projecting or impedimental parts for the purposes aforesaid.

The nibs of the top back rollers are preferably cast upon or form part of the back bar or saddle F which is secured to the standard or bearing F¹ of the bottom back roller; the nibs of the top carrier rollers B are also cast upon or form part of the bars or saddles H, the latter being secured to the nib or bearing J of the bottom carrier rollers K. The nib of the top front rollers is in the form of a curved arm which is bolted or secured to the front bar or saddle G.

The front top roller is provided with a pressing hook L which fits between the fork E¹ of the nib, this hook is constructed and operates in the ordinary manner. The pressure hooks M of the back rollers also fit between the fork of the supporting nib, but in this case the tension spring is compressed beneath a projecting lug or fork N on the back rail F.

R is the bottom front roller, and S the frame end.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a worsted or silk spinning frame, the combination with a supporting standard F¹ in which is journaled the bottom back roller, of a saddle secured to said standard and provided with nibs E, top back rollers A having bearing necks D between the two bosses of said rollers A and journaled in said nibs; the

saddles H secured to the standard J and provided with nibs E^2 in which are journaled the bottom carrier rollers K, top carrier rollers B having bearing necks between the two 5 bosses of said rollers B and journaled in said nibs; the front saddle G to which is secured the curved arm or nib E^3 terminating in a fork E^1 , the top front rollers C having bearing necks between the two bosses of said 10 rollers C, and journaled upon the fork E^1 which also forms a support for the pressure hook L, substantially as set forth.

2. In a worsted or silk drawing or roving frame, the combination with a supporting 15 standard J in which is journaled the bottom carrier roller K, of a saddle H secured to said standard and provided with nibs E^2 , top

carrier rollers B having bearing necks between the two bosses of said rollers and journaled in said nibs; the front saddle G to 20 which is secured the curved arm or nib E^3 terminating in a fork E^1 , the top front rollers C having bearing necks between the two bosses of said rollers C and journaled upon the fork E^1 which also forms a support for 25 the pressure hook L, substantially as set forth.

In witness whereof I have hereunto affixed my signature in the presence of two witnesses.

JOSEPH FARRAR.

Witnesses:

ABM. REED,

WILFRED ALDERSON.