

(No Model.)

A. BORIOS.

SLIVER DIVIDING DEVICE FOR CARDING MACHINES.

No. 561,960.

Patented June 16, 1896.

Fig. 2.

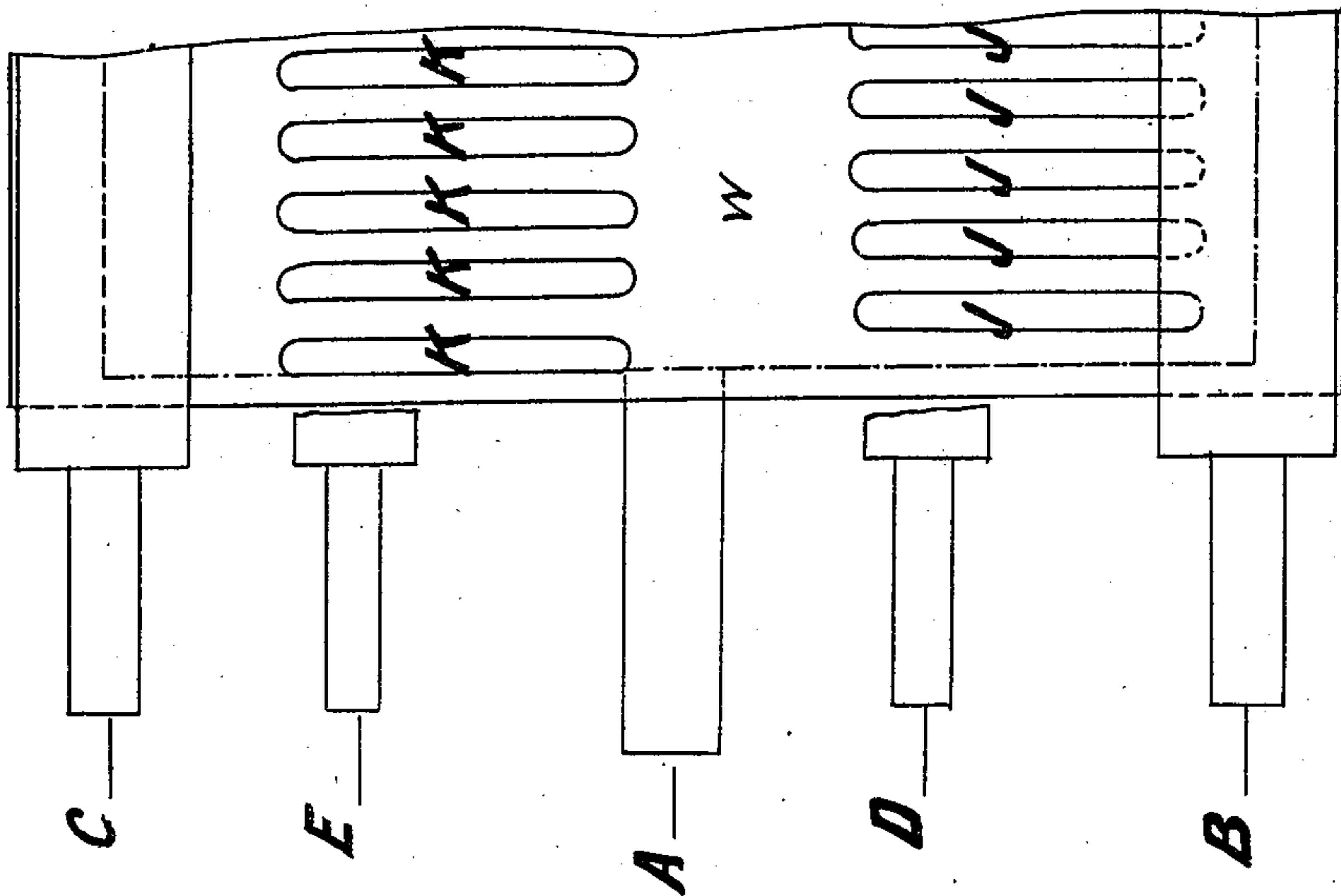
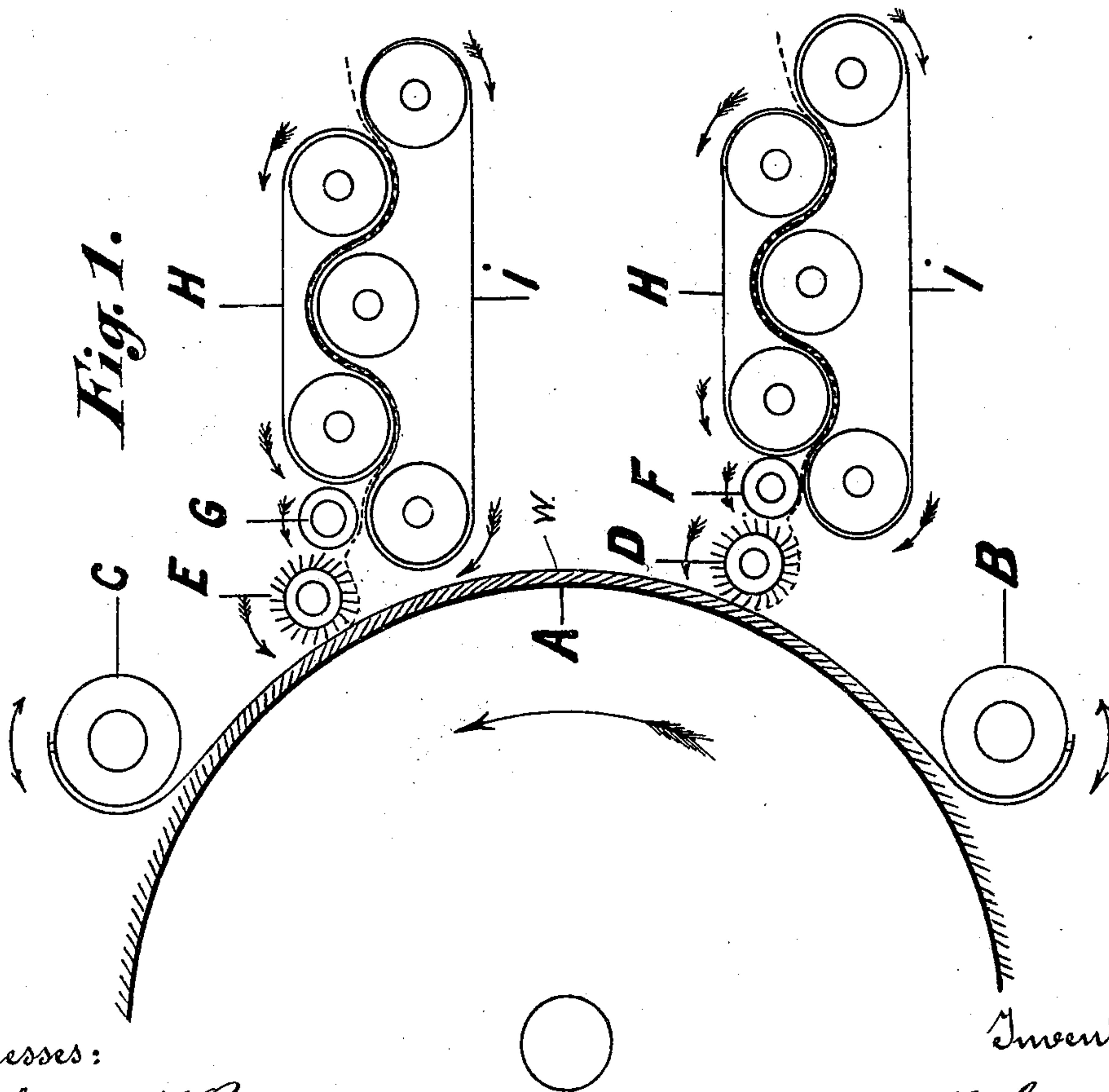


Fig. 1.



Witnesses:

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ALPHONSE BORIOS, OF LA SARRAZ, SWITZERLAND.

SLIVER-DIVIDING DEVICE FOR CARDING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 561,960, dated June 16, 1896.

Application filed November 18, 1895. Serial No. 569,355. (No model.) Patented in Switzerland October 17, 1894, No. 9,157, and in Germany May 1, 1895, No. 80,803.

To all whom it may concern:

Be it known that I, ALPHONSE BORIOS, spinner's mechanician, a citizen of the Swiss Republic, residing at La Sarraz, Canton de Vaud, Switzerland, have invented certain new and useful Improvements in Sliver-Dividing Devices for Carding-Machines, (for which I have obtained patents in Germany, No. 80,803, dated May 1, 1895, and in Switzerland, No. 9,157, dated October 17, 1894,) of which the following is a specification.

My invention has reference to improvements in sliver-dividing devices for carding-machines; and it consists of a thin sheet of metal provided with rows of elongated openings or slots, the number of which varies according to the nature of the textile material operated upon and the number of slivers to be obtained.

The drawings accompanying this application clearly show my invention, and I will proceed to describe it with reference to the said drawings.

Figure 1 is a side view of the apparatus. The sheet of metal W is placed immediately over the main card-drum of the machine, (lettered A,) around which it is partially wrapped, and its ends are attached to rollers C and B. It is thus located between the main drum and the doffing-cylinders E and D. In Fig. 2 this sheet of metal is shown in front elevation, illustrating the two rows of openings K and J, through which the doffing-cylinders come in contact with the material. It is arranged that these rows of openings stand opposite

the spaces left between the openings of the subsequent or previous row, thus presenting different surfaces to be operated upon. The rollers C and B effect alternately one-third of a revolution to the right and left, so as to partially wrap and unwrap the dividing-sheet, and thus cause it to travel in a vertical direction.

The action of my invention is as follows: On the machine being set in motion the various rollers and drums rotate in the direction shown by the arrows, and the doffing-cylinders E and D, working through the rows of openings K and J, strip off portions of the material, which being passed between and pressed by the auxiliary doffing-cylinders G and F and rubbers H and I forms the sliver, the width of which depends upon the size of the openings in the metal sheet.

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

The combination, with a revoluble carding-drum, and two oscillatory rollers B and C; of a curved sheet of metal having its ends attached to the said rollers and provided with rows of slots J and K arranged alternately and out of line with each other, and revoluble doffing-cylinders D and E working through the respective rows of slots, substantially as set forth.

ALPHONSE BORIOS.

Witnesses:

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