

(No Model.)

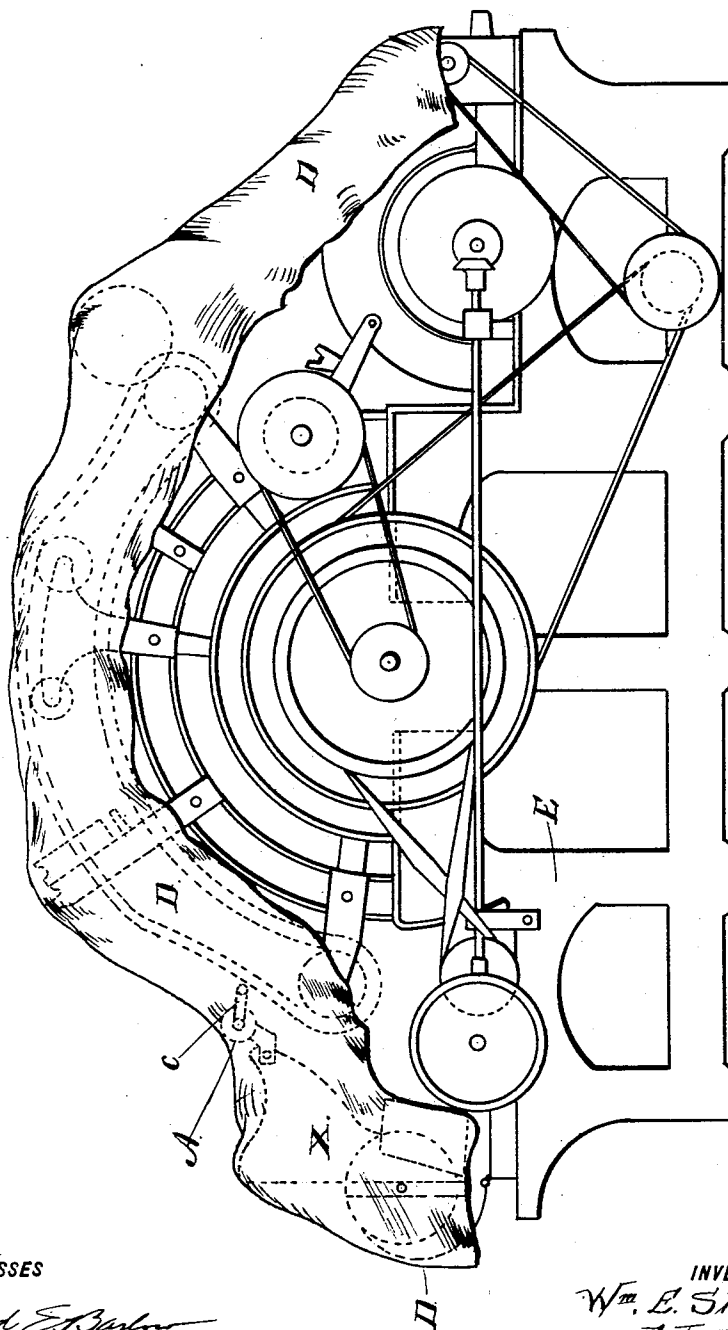
2 Sheets—Sheet 1.

W. E. SHARPLES & F. J. SNELL.
PROTECTING COVER FOR CARDING MACHINES.

No. 590,340.

Patented Sept. 21, 1897.

Fig. 1.



WITNESSES

Howard E. Barber
W. E. Lawton

INVENTOR

Wm. E. Sharples
F. J. Snell
BY

Benj. Arnold
ATTORNEY

(No Model.)

2 Sheets—Sheet 2.

W. E. SHARPLES & F. J. SNELL.
PROTECTING COVER FOR CARDING MACHINES.

No. 590,340.

Patented Sept. 21, 1897.

Fig. 2.

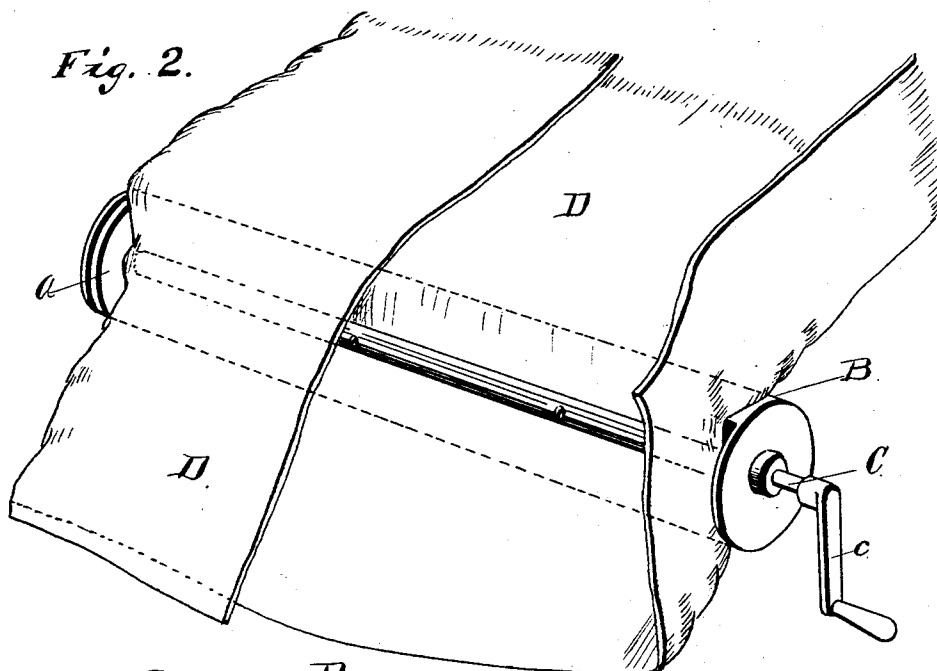


Fig. 3.

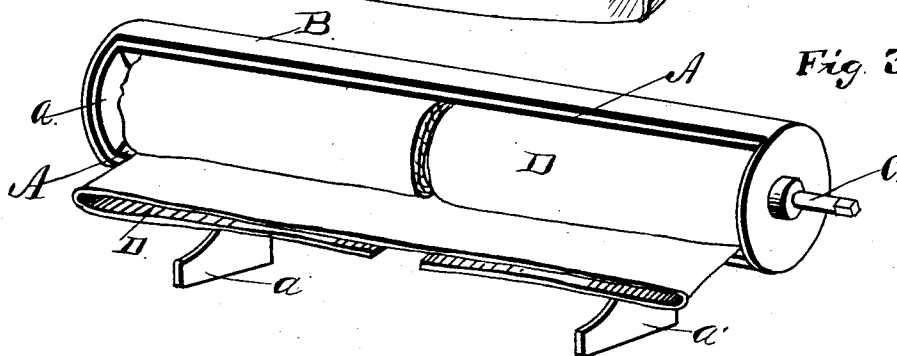
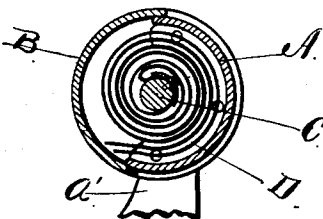


Fig. 4.



WITNESSES

Howard C. Carlson.
W. E. Lawton.

INVENTORS.
Wm. E. Sharples.
F. J. Snell.
BY

Benj. Arnold
ATTORNEY

UNITED STATES PATENT OFFICE.

WILLIAM E. SHARPLES AND FERNANDO J. SNELL, OF FALL RIVER,
MASSACHUSETTS.

PROTECTING-COVER FOR CARDING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 590,340, dated September 21, 1897.

Application filed January 15, 1897. Serial No. 619,333. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM E. SHARPLES and FERNANDO J. SNELL, of Fall River, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Protecting-Covers for Carding-Machines; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to the class of protective appliances intended to prevent damage to carding-machines in case of fires in factories from the water used to extinguish the flames or from burst pipes or other causes.

It is fully explained and illustrated in this specification and the accompanying drawings.

Figure 1 is a side elevation of a carding-machine with the protector applied to it. Fig. 2 shows a perspective view of a part of the protector partly-prepared for winding up in the case attached to the carding-machine to receive it when the machine is in use. Fig. 3 is a perspective view of the case separate from the machine with the protector wound up in it. Fig. 4 is a vertical cross-section of the case with the protector inclosed.

The object of this invention is to provide a protecting-covering always attached to the carding-machine and ready for use at a moment's notice. In view of the cost of the fine polished steel-wire clothing of the carding-machines, which is about one hundred and twenty-five dollars for each machine, and that there are often as many as one hundred of the machines in one room, the great necessity for protection in case of a fire in a room over them to prevent the water from dropping down on this clothing is apparent, as a few drops of water will rust the wire and entirely destroy its usefulness.

There are no other machines in a cotton factory that have more than a comparatively small amount of liability to receive damage in such a case.

The construction of the protector is this:

A blanket or like sheet of material D, preferably made waterproof, is provided, long enough to extend over the whole length of

the machine E and wide enough to hang down a short distance at each side, as seen in Fig. 1.

A case A is made large enough to easily contain the protector-blanket D when the latter is rolled up and long enough to about reach across the carding-machine. This case A has brackets or feet *a' a'*, (see Fig. 3,) by means of which it is attached to the stand or lap-head X at the rear end of the machine. A horizontal shaft C is placed lengthwise in the center of the case A in bearings in each end of the case and has a crank *c* made fast on its outer end to turn it by.

The case A is attached to the carding-machine at the place mentioned above because it is about the only available place and where it will not be in the way when the machine is running. To make the protector capable of covering the short space and lap X beyond, it is attached to the shaft C far enough in from the end of the blanket to leave enough of it to cover the space between the case A and the rear end of the machine. (See Figs. 1 and 2.)

To house the protector in the case when the carding-machine is to be operated, the sides of it are lapped over on the central portion, as is partly shown in Fig. 2, so as to be narrow enough to go in the case between the flanges *a a* on the shaft C. Then by turning the crank *c* the whole will be wound up around the shaft C inside of the case A, as seen in Figs. 3 and 4, and a sliding cover B is provided to keep it clear of dust, &c.

To cover and protect the carding-machine on leaving it at night or in case of emergency, the cover B is turned back and the protector drawn out by the end over the machine and the sides dropped down, as shown in Fig. 1, and the machine is completely protected from the dripping of water from above and the cotton in the machine from catching on fire from sparks or other causes.

Having thus described our improvements, we claim as our invention and desire to secure by Letters Patent—

In a protector appliance for a carding-machine, the combination of a blanket or sheet long enough to cover the whole length of the machine, and wide enough to hang down a

short distance at each side, a case provided with brackets or feet to attach the case to the machine by, a horizontal shaft held in bearings in the ends of said case, an attaching
5 connection made between said shaft and the protector-blanket at some distance from the back end, substantially as and for the purpose set forth.

In testimony whereof we have hereunto set our hands this 7th day of January, A. D. 1897. 10

WILLIAM E. SHARPLES.
FERNANDO J. SNELL.

In presence of—

CHARLES E. MILLS,
SANDY HARRISON.