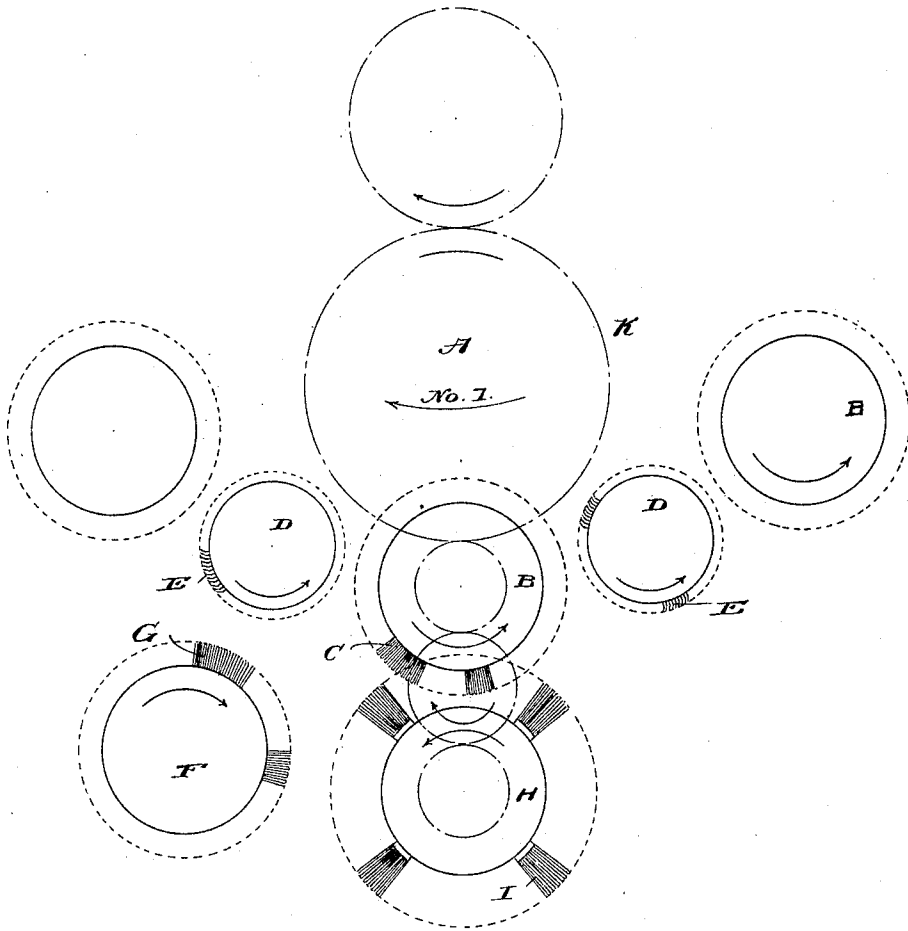


No. 810,273.

PATENTED JAN. 16, 1906.

H. S. GREENE.
NAPPING MACHINE.
APPLICATION FILED MAY 24, 1905.



WITNESSES:

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UNITED STATES PATENT OFFICE.

HARRY S. GREENE, OF WOONSOCKET, RHODE ISLAND.

NAPPING-MACHINE.

No. 810,273.

Specification of Letters Patent.

Patented Jan. 16, 1906.

Application filed May 24, 1905. Serial No. 261,959.

To all whom it may concern:

Be it known that I, HARRY S. GREENE, a citizen of the United States, residing at Woonsocket, in the county of Providence and State of Rhode Island, have invented new and useful Improvements in Napping-Machines, of which the following is a specification.

My invention pertains to planetary cloth-napping machines, and more particularly to means for removing collected lint from the card-clothing on the napping-rollers of such machines so as to maintain the efficiency of the clothing and the machine as a whole.

The invention contemplates the provision of simple and inexpensive means for removing collected lint from the card-clothing of the comparatively small rollers as well as from the card-clothing of comparatively large rollers of a drum having the small and large rollers alternating with each other and arranged with their axes in a common circle—such, for instance, as the drum shown in my Letters Patent No. 787,095, dated April 11, 1905—and its novelty, utility, and practical advantages will be fully understood from the following description and claim when taken in connection with the accompanying drawing, forming part of this specification, in which the figure is a view of so much of a planetary napping-machine as is necessary to illustrate the present and preferred embodiment of my invention.

Referring by letter to the said drawing, A is the drum of a cloth-napping machine. B are napping-rollers carried by the drum and provided on their perimeters with the usual card-clothing C, and D are comparatively small napping-rollers carried by the drum and provided on their perimeters with the usual card-clothing E. These parts are preferably similar to the corresponding parts of the machine constituting the subject of my aforesaid Letters Patent, the drum and the rollers being assumed to rotate in the directions indicated by arrows and the rollers D alternating with the rollers B and being arranged considerably within the circle in which the outermost portions of the several rollers B lie, as shown.

F is a roller provided on its periphery with long wire-clothing G and having for its purpose to clean the card-clothing of the comparatively large napping-rollers B. This roller F may be rotated in the direction indi-

cated by arrow either through a driving connection from the drum or by extraneous means. For this reason I have deemed it unnecessary to illustrate a driving connection extending to the roller F.

H is my novel roller for cleaning the card-clothing on the comparatively small napping-rollers D of the drum. This roller H is provided on its periphery with strips I of long brush-wire or other material suitable to the purpose placed parallel to the axis of the roller, and it is so set and driven from the drum A, through a suitable train of spur-gearing K, that its strips of wire I will clear the card-clothing on the large napping-rollers B, and yet will reach in and engage and effectually clean the card-clothing of the comparatively small napping-rollers D. Four of the strips I are shown; but the number may obviously vary according to the number of the large napping-rollers B on drum A.

It will be gathered from the foregoing that my improvements materially increase the efficiency of the napping-machine disclosed in my Letters Patent *supra* without adding greatly to the cost thereof.

I claim—

In a napping-machine, the combination with a drum equipped with napping-rollers and also with comparatively large rollers bearing card-clothing and alternating with the napping-rollers and having their axes arranged in a common circle with the axes of the napping-rollers; of a roller bearing wire-clothing and arranged outside the drum in a position to clean the card-clothing of the comparatively large rollers on the drum, a roller having longitudinal strips of material for cleaning the card-clothing of the napping-rollers of the drum; said strips being arranged to clear the comparatively large rollers and having long wires adapted to reach to and engage the card-clothing of the small napping-rollers, and a positive driving connection intermediate the drum and the second-mentioned cleaning-roller for driving the latter by the former.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

HARRY S. GREENE.

Witnesses:

EDGAR L. SPAULDING,
GEO. W. SPAULDING.