No. 742,839. PATENTED NOV. 3, 1903.

J. T. COLLINS.

BRUSH FOR STREET SWEEPERS.

APPLICATION FILED FEB. 13, 1903.

NO MODEL.

Fig. 1.

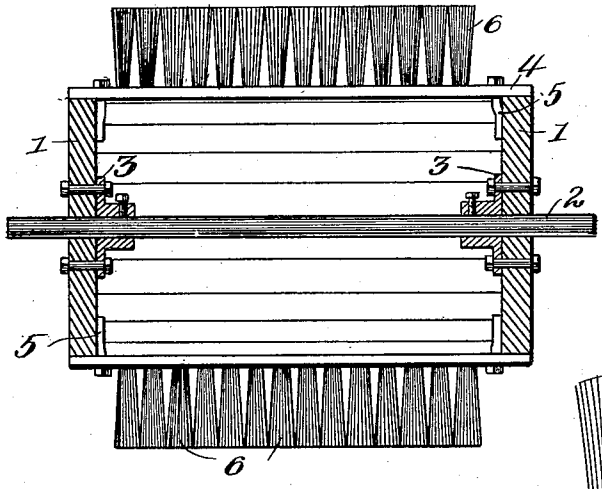


Fig. 2.

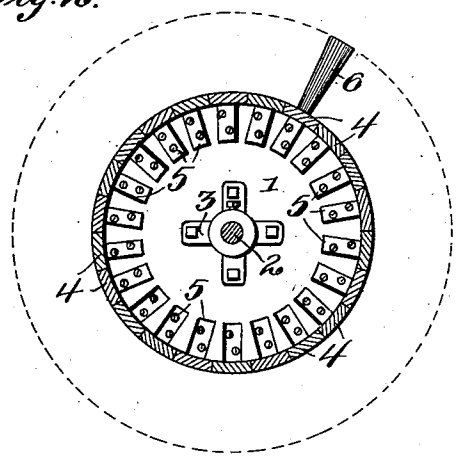
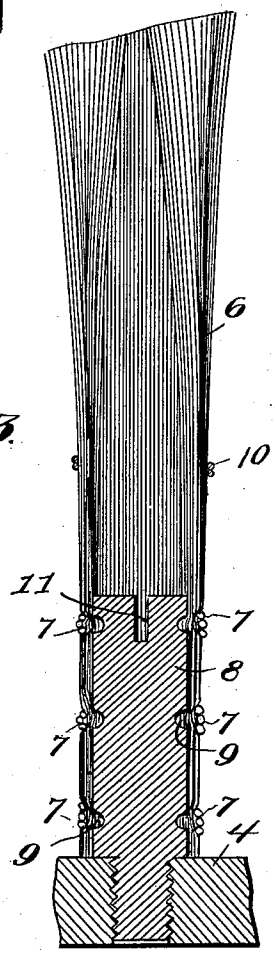


Fig. 3.



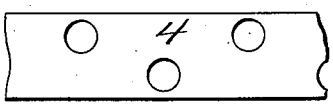
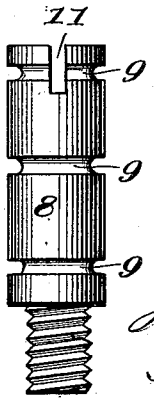


Fig. 4

Fig. 5.



Witnesses:

W. G. Campbell.

Ethel M. Lowe.

Inventor:

John T. Collins by

Harry P. Williams

atty.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 742,839. Patented November 3, 1903.

UNITED STATES PATENT OFFICE.

JOHN THOMAS COLLINS, OF HARTFORD, CONNECTICUT, ASSIGNOR TO THE HARTFORD MOTOR MACHINE COMPANY, OF HARTFORD, CONNECTICUT, A CORPORATION OF MAINE.

BRUSH FOR STREET-SWEEPERS.

SPECIFICATION forming part of Letters Patent No. 742,839, dated November 3, 1903.

Application filed February 13, 1903. Serial No. 143,212. (No model.)

To all whom it may concern:

Be it known that I, JOHN THOMAS COLLINS, a citizen of the United States, residing at Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Cylinder Brushes for Street-Sweepers, of which the following is a specification.

This invention relates to the construction of a cylindrical brush for a street-sweeper.

The object of the invention is to provide a simple construction for a brush of this nature with the bristles so held that they will not become loose and drop out when in use, but so attached that a new bunch of bristles can at any time be easily and quickly substituted for a bunch that has become worn.

Figure 1 of the accompanying drawings shows a longitudinal section of a brush that embodies the invention. Fig. 2 shows a transverse section of the brush. Fig. 3 shows a transverse section, on larger scale, of one of the bristle-holding lags and a bunch of bristles. Fig. 4 is a plan of a small portion of one of the bristle-holding lags, and Fig. 5 is a side view of one of the bristle-hubs.

In the form of the invention that is illustrated a pair of disks 1 are attached to a shaft 2 by means of spiders 3. Fastened about the peripheries of the disks are lags 4. These lags are preferably secured in place by means of nuts on lag-bolts 5, that are screwed to the insides of the disks. Through each lag is a staggered row of threaded perforations.

The bristles 6, which may be broom-corn, wires, ratan, or other material, are bound in bunches by wires 7 upon cylindrical hubs 8, that preferably have annular grooves 9, so that the binding-wires will compress the bristles into the grooves and hold them securely. Beyond the ends of the hubs the bristles of each bunch are loosely bound together by cords 10. The shank of each hub is threaded, so that it may be screwed into a threaded opening in the lag until the shouldered end of the hub bears tightly against the face of the lag. The inner end of each hub has a slot 11, into which an end of a long screw-driver may be inserted for turning the hub when screwing a fresh bunch of bristles into position or removing a worn bunch from a lag. It is preferred to make the lags and the bristle-hubs of wood and to have the threads in the perforations in the lags and on the shanks of the hubs fit tightly and to screw the hubs, with the bristles, into position when the parts are very dry, so that when they become damp they will swell and tightly hold together against all possibility of accidentally becoming loosened.

I claim as my invention—

A cylindrical brush for a street-sweeper having circular heads, lags attached to the peripheries of the heads, threaded perforations through the lags, threaded hubs screwed into the perforations in the lags and bunches of bristles bound to each hub, substantially as specified.

JOHN THOMAS COLLINS.

Witnesses:

ETHEL M. LOWE,

H. R. WILLIAMS.