

C. C. GERHARDT.
PIPE OR HOSE CLEANING DEVICE.
APPLICATION FILED MAY 15, 1907.

940,457.

Patented Nov. 16, 1909.

Fig. 1.

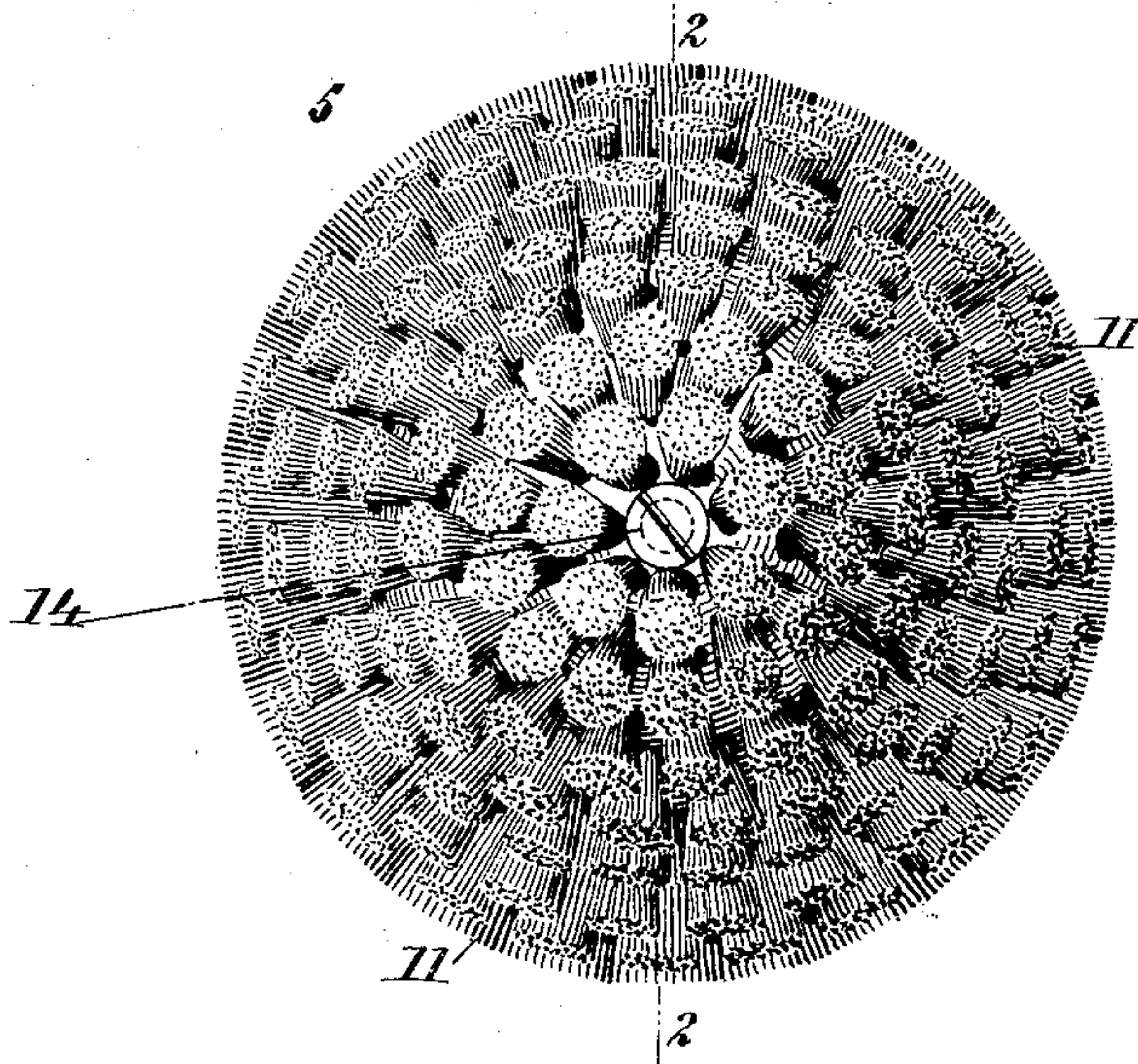
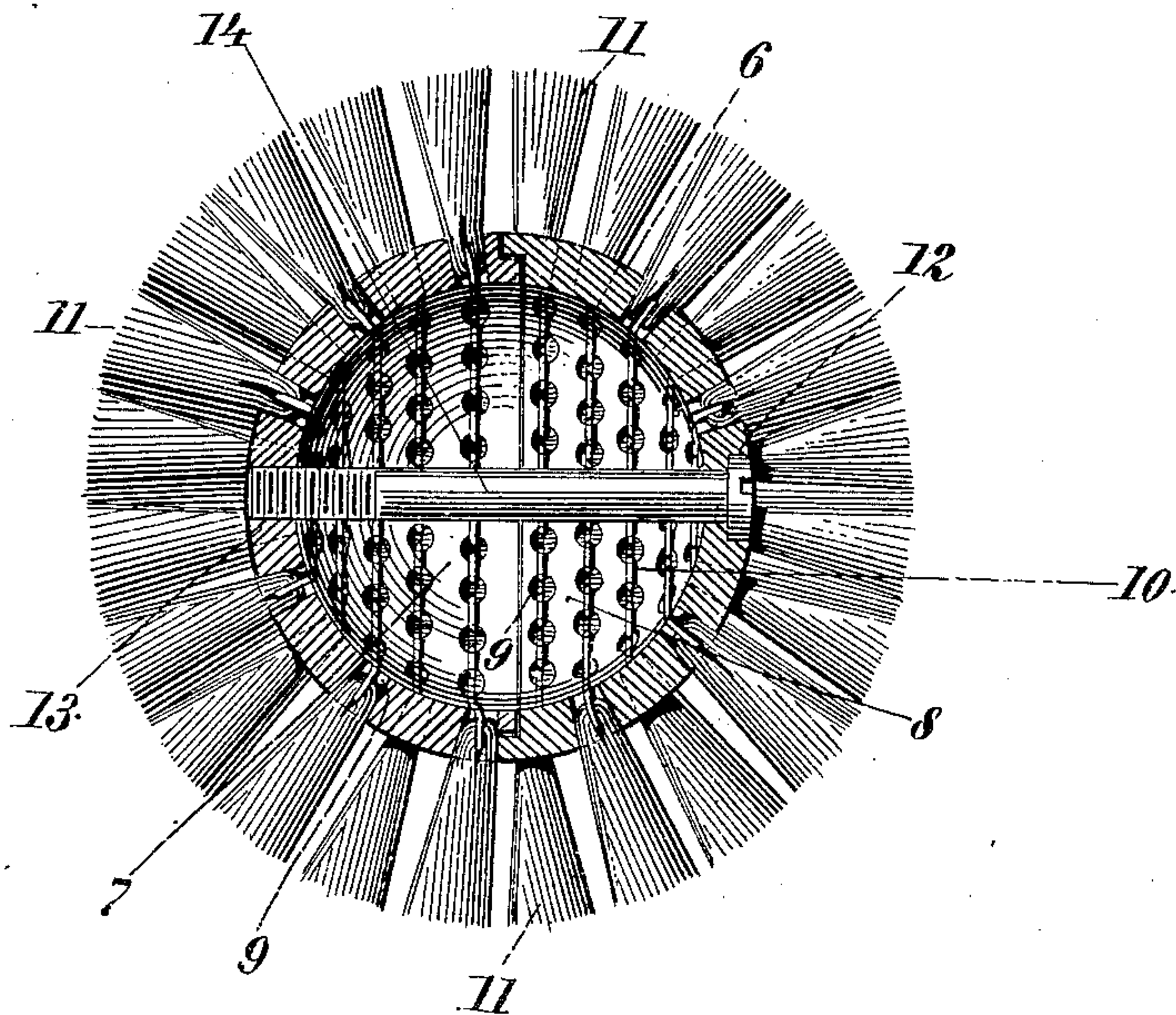


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CHRISTIAN C. GERHARDT, OF NEW YORK, N. Y.

PIPE OR HOSE CLEANING DEVICE.

940,457.

Specification of Letters Patent. Patented Nov. 16, 1909.

Application filed May 15, 1907. Serial No. 373,858.

To all whom it may concern:

Be it known that I, CHRISTIAN C. GERHARDT, a citizen of the United States, residing at the city of New York, borough of Manhattan, in the county and State of New York, have invented certain new and useful Improvements in Pipe or Hose Cleaning Devices, of which the following is a full, clear, and exact specification.

My invention relates to cleaning devices, and the same has for its object more particularly to provide a simple, efficient and reliable device for cleaning hose, pipes, or other cylindrical structures.

Further, said invention has for its object to provide a device which may be readily inserted into the pipe or other body to be cleaned, and thence be forced therethrough by means of a suitable fluid.

Further said invention has for its object to provide a cleaning device whereof the body portion is made of such size and weight that the same may be driven through a pipe with such force and speed that the resilient members arranged upon the surface of said body portion will be brought forcibly into engagement or contact with the inner surface or wall of the pipe.

Further said invention has for its object to provide a cleaning device comprising a plurality of parts, which may be readily separated to facilitate cleaning or repairing the same, and which parts may be firmly secured together to form a unitary structure.

To the attainment of the aforesaid objects and ends, my invention consists in the novel details of construction, and in the combination, connection and arrangement of parts hereinafter more fully described, and then pointed out in the claims.

In the accompanying drawings forming part of this specification wherein like numerals of reference indicate like parts, Figure 1 is a side view showing a cleaning device constructed according to and embodying my said invention, and Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1.

In said drawings 5 designates the device as a whole comprising a body-portion 6 composed of two semi-spherical sections 7, 8 having their edges rabbeted and conformed to interlock with each other. In said semi-spherical sections 7, 8 are arranged series of

radial apertures 9, 9 in which are secured by a wire 10 the ends of the tufts or bunches of bristles 11 11. The tufts or bunches may be made of wire, bristles or any other suitable substance depending upon the particular purpose for which the device is to be used. The semi-spherical section 8 is provided with a centrally-located recessed aperture 12, and the semi-spherical section 7 is provided with a centrally-located threaded aperture 13, and 14 denotes a screw which extends through the aperture 12 in the section 8, and has its threaded end in engagement with the threaded aperture 13 in the section 7 in order to hold said parts united to form a single spherical structure having its entire outer surface covered with resilient members 11 11 all of which project a uniform distance from the outer surface of said spherical body 6. By preference the semi-spherical sections 7, 8 are made of metal or other suitable material which is not affected by fluid, or subject to injury or distortion when in use.

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

1. A cleaning device of the character described comprising a relatively heavy non-yielding spherical body composed of a plurality of parts conforming to each other and producing a continuous structure, resilient members secured to said parts and extending outwardly therefrom and entirely covering said body, and means for securing said parts together, substantially as specified.

2. A cleaning device of the character described comprising a relatively heavy, hollow, spherical body composed of two semi-spherical sections having interlocking edges and provided with radial perforations, brushes secured in said perforations and entirely covering said spherical body, and a screw extending through said body for securing said sections together, substantially as specified.

Signed at the city of New York, in the county and State of New York, this ninth day of May, nineteen hundred and seven.

CHRISTIAN C. GERHARDT.

Witnesses:

LOUIS B. HASBROUCK,
CONRAD A. DIETERICH.