

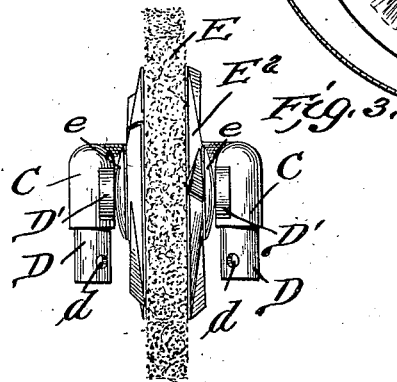
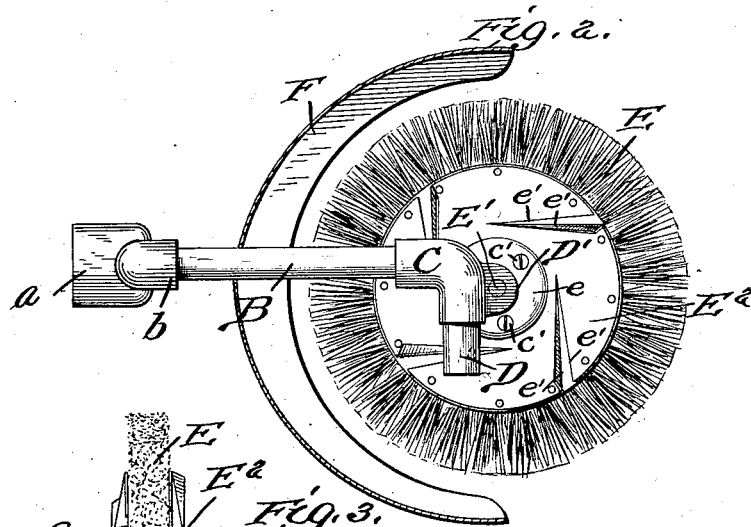
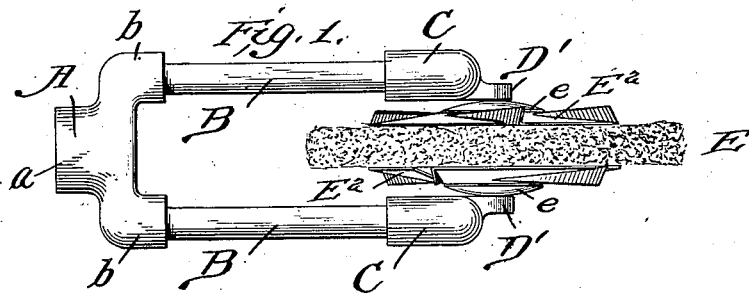
No. 648,856.

Patented May 1, 1900.

O. M. DEEMER.  
ROTARY CLEANING BRUSH.

(Application filed Aug. 11, 1899.)

(No Model.)



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# UNITED STATES PATENT OFFICE.

ORA M. DEEMER, OF GILMORE, NEBRASKA.

## ROTARY CLEANING-BRUSH.

SPECIFICATION forming part of Letters Patent No. 648,856, dated May 1, 1900.

Application filed August 11, 1899. Serial No. 726,921. (No model.)

*To all whom it may concern:*

Be it known that I, ORA M. DEEMER, a citizen of the United States, residing at Gilmore, Sarpy county, Nebraska, have invented certain new and useful Improvements in Rotary Cleaning-Brushes, of which the following is a specification.

My invention relates to improvements in rotary cleaning-brushes which are automatically driven by the cleansing-water.

I have aimed to improve the construction of the frame of the brush, to increase the force with which the brush shall be rotated, and to more effectually apply the cleansing-water at the desired point, and, farther, to guard against the water being thrown backward upon the party using the brush.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a plan view. Fig. 2 is a side elevation, and Fig. 3 is an end elevation.

Referring to the drawings by letter, A represents a coupling or union which is provided with a larger threaded part *a* for connection to the supply-pipe through which the cleansing-water is supplied. On the opposite side the union is provided with two smaller threaded portions *b*, from which the pipe members B B extend forward and parallel to each other, being provided at their forward ends with the elbow-couplings C C. These elbow-couplings in turn carry the short pipe-sections D D, which are closed at their outer ends and are provided with inwardly-inclined openings *dd* for the propelling-jets, as hereinafter described. Ears D' D' project from the elbow-couplings, and in these ears are journaled the trunnions E' of the brush *W*. This brush is preferably formed of a wooden tapered body portion carrying the bristles at the outer edge and having disks *e* at each side, which are secured to the body portion by screws *c* and from which the trunnions E' project. The body portion is provided also on each side

with a sheet-metal covering-plate E<sup>2</sup>, which is cut or severed on lines *d' c'* and a portion of the material bent outward on one side of each cut to form wings or blades, against which the jets of water from the openings *dd* strike.

The wings or blades on opposite sides of the brush alternate, and they are so arranged or inclined that when struck by the water while the wheel is rotating the water is thrown principally forward.

In order to prevent the water from splashing back upon the operator, a guard or hood F is provided, carried by the frame and partially inclosing the brush. This hood F is shown in sectional view in Fig. 2.

Having thus described my invention, what I claim is—

1. In combination, the frame having the substantially-parallel side pipe members, the end members at right angles thereto, elbow-couplings connecting said side and end members, ears carried by said elbow members, and a rotary brush having its shaft journaled in said ears and having side wings or blades, said angularly-turned ends having jet-openings, substantially as described.

2. In combination with the pipe-frame having parallel members with jet-openings, a rotary brush journaled in said frame and comprising a body portion having a thickened center and tapered toward the circumference, a sheet-metal plate secured to each side of said body portion having slits therein inclined to the diameter of the plate, the edges on one side of said slit portions being turned up to form wings or blades and plates at the center of said brush having trunnions engaging the frame, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

ORA M. DEEMER.

Witnesses:

GEO. W. DAVIS,  
H. D. BALDWIN.