

(No Model.)

2 Sheets—Sheet 2.

N. C. BASSETT.
ROTARY BROOM.

No. 516,793.

Patented Mar. 20, 1894.

FIG. 4.

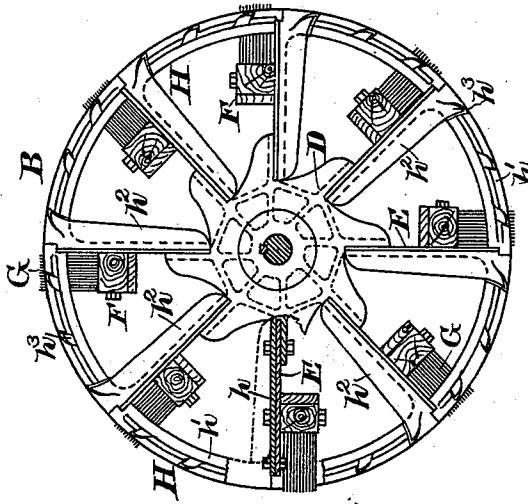


FIG. 3.

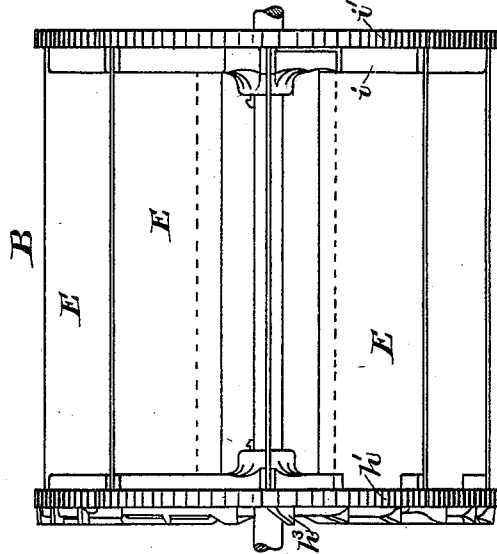
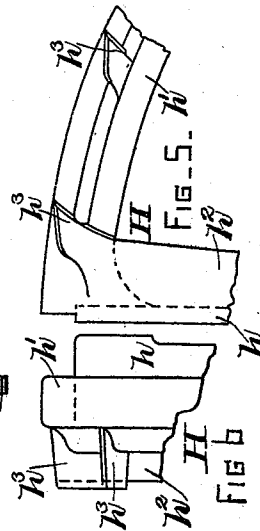
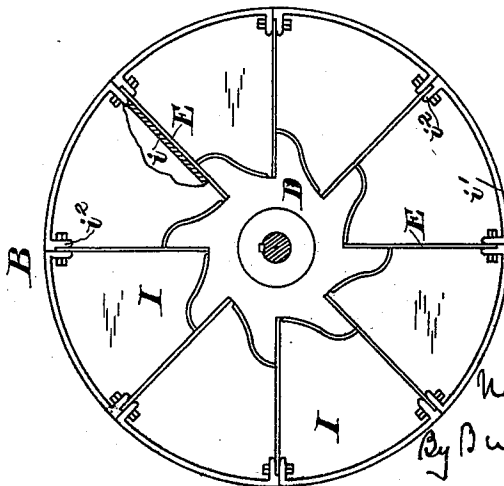


FIG. 2.



WITNESSES.
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UNITED STATES PATENT OFFICE.

NORMAN C. BASSETT, OF LYNN, ASSIGNOR TO THE GENERAL ELECTRIC COMPANY, OF BOSTON, MASSACHUSETTS.

ROTARY BROOM.

SPECIFICATION forming part of Letters Patent No. 516,793, dated March 20, 1894.

Application filed September 7, 1893. Serial No. 484,960. (No model.)

To all whom it may concern:

Be it known that I, NORMAN C. BASSETT, a citizen of the United States, residing at Lynn, in the county of Essex and State of Massachusetts, have invented a certain new and useful Improvement in Snow-Sweepers, of which the following is a specification.

My invention relates to snow sweepers for railways and comprises improvements in the construction of the rotary broom.

In the drawings, Figure 1, is an elevation of an electric railway sweeper. Fig. 2 is a view of one end of a drum. Fig. 3, is an elevation thereof. Fig. 4, is a view of the opposite end of the same, and Figs. 5 and 6 show side and end elevations upon an enlarged scale of the cutters on the end of the drum shown in Fig. 4.

The car or carrier A for the sweeper is shown with the usual or suitable running gear *a*. It may be propelled in any suitable manner, and may be of any suitable construction, this forming no part of my invention.

The sweeper proper consists of a rotary broom composed of one or more drums B, suitably journaled in a supporting frame C, and driven by gearing in any desired manner. When two drums are used, the gears may be connected with the shaft between them.

Each drum consists of two spiders D fastened to the shaft, and connected by radial steel striking plates E bolted to the arms of the spiders. Along the rear side of each plate is fastened a bar F in which are set the wire brushes G which project slightly beyond the outer edges of the plates E. The broom is set obliquely across the track, and at its forward end it is armed with stout cutters to eat into the snow and ice. Each cutter is an L-shaped piece H having a flange *h* to bolt to one of the radial plates, and an arm *h'* curved in the shape of a segment of a circle, so that when all the cutters are in place, the arms *h'* form a continuous rim for the drum at one

end. Along the flange *h* runs a cutting blade *h²*, and on the arm *h'* are one or more small cutters *h³*.

The rear end of the drum is composed of sector plates I having inner radial flanges *i* which are bolted to the striking plates E. The sector plates have a thick heavy rim *i'*, and lugs *i²* by which they are bolted together on the outside.

The striking plates E act to beat and cut down the snow and ice and sweep it away, thereby preparing the way for the action of the wire brushes, which are thus relieved of the heavy part of the work and have only to sweep the shallow layer of loose snow off the track.

Having thus described my invention, what I claim as new, and desire to protect by Letters Patent of the United States, is—

1. A rotary broom, comprising two spiders carrying brushes and attachments fastened to one of said spiders having radial blades and curved outer arms provided with cutters.

2. A rotary broom, comprising a drum provided with brushes, and having one end composed of L-shaped attachments having curved arms united to form a continuous rim and provided with cutters.

3. A rotary broom, comprising a drum having one end composed of L-shaped attachments having radial blades and curved outer arms forming a rim and provided with cutters.

4. A rotary broom comprising two spiders having radial arms provided with brushes and attachments fastened to one of such spiders having radial blades with curved outer arms forming a complete rim and provided with cutters.

In witness whereof I have hereunto set my hand this 5th day of September, 1893.

NORMAN C. BASSETT.

Witnesses:

JOHN W. GIBBONEY,
BENJAMIN B. HULL.