No. 680,990. Patented Aug. 20, 1901.

J. E. COMPTON.

ROTARY BRUSH.

(Application filed Apr. 27, 1901.)

(No Model.)

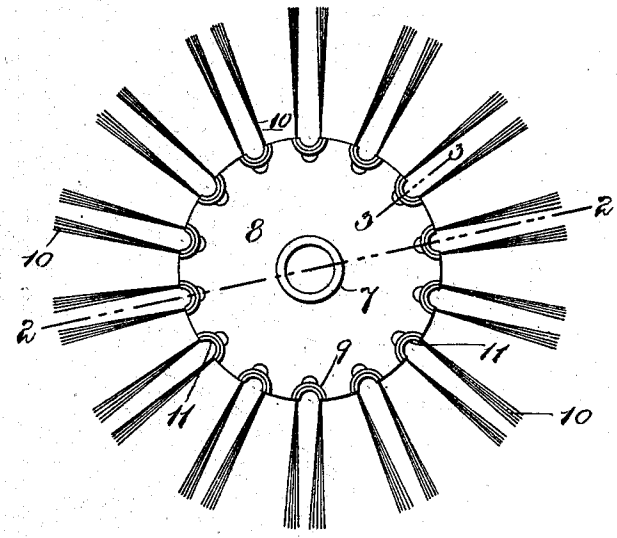


Fig. 1.

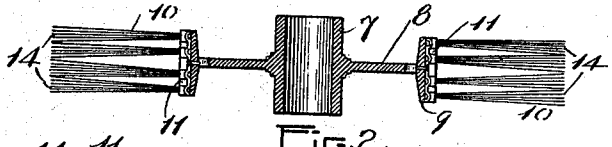


Fig. 2.

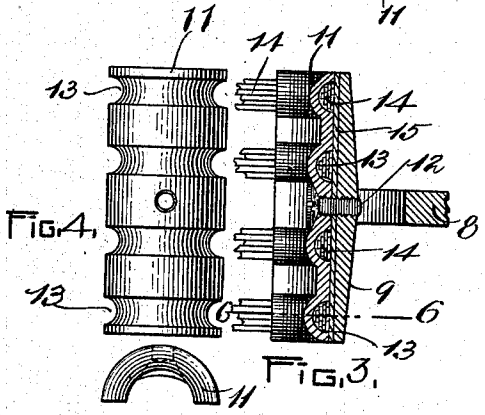


Fig. 4.

Fig. 3.

Fig. 5.

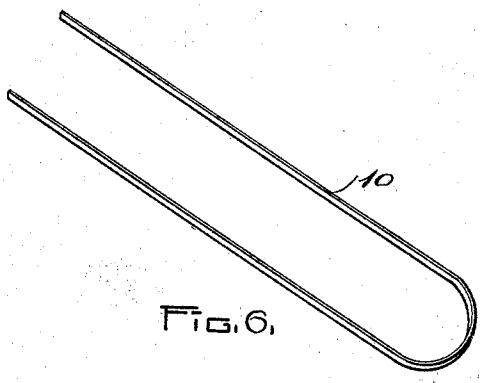


Fig. 6.

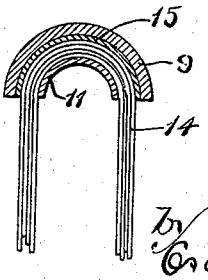


Fig. 6a.

Witnesses:
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by his Attorneys,
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UNITED STATES PATENT OFFICE.

JAMES E. COMPTON, OF LYNN, MASSACHUSETTS.

ROTARY BRUSH.

SPECIFICATION forming part of Letters Patent No. 680,990, dated August 20, 1901.

Application filed April 27, 1901. Serial No. 57,667. (No model.)

To all whom it may concern:

Be it known that I, JAMES E. COMPTON, a subject of the King of England, residing at Lynn, in the county of Essex and State of Massachusetts, have invented new and useful Improvements in Rotary Brushes, of which the following is a specification.

The object of this invention is to produce a rotary brush for cleansing castings and the like, which shall be very durable and efficient in operation and in which the portions which do the actual work of cleansing may be readily renewed when worn.

The invention consists of a rotary brush comprising a holder and a series of U-shaped cleansing-wires attached to the periphery of said holder.

The invention further consists in the specific means whereby said cleansing-wires are attached to said holder.

The invention still further consists in the combination and arrangement of parts set forth in the following specification and particularly pointed out in the claims thereof.

Referring to the drawings, Figure 1 is a front elevation of my improved rotary brush. Fig. 2 is a detail section taken on line 2 2, Fig. 1. Fig. 3 is an enlarged detail section taken on line 3 3, Fig. 1. Fig. 4 is a detail side elevation, and Fig. 5 an end elevation, of one of the wire-clamp plates. Fig. 6 is a perspective view of one of the cleansing-wires. Fig. 6ª is a transverse section taken on line 6 6, Fig. 3.

Like numerals refer to like parts throughout the several views of the drawings.

In the drawings, 7 is the hub of the brush, having a cylindrical plate 8 integral therewith, said plate having a series of hollow semicircular flanges 9 upon the periphery thereof. The flanges 9 extend at right angles to the face of the plate 8 and from both sides thereof and serve as holders for a series of U-shaped cleansing-wires 10. Said U-shaped cleansing-wires are arranged in bunches, separated one from the other and held firmly against the flanges 9 by clamp-plates 11, secured thereto by a screw 12. The clamp-plates 11 each consist of a semi-annular ring, provided upon the periphery thereof with semicircular grooves 13, which prevent the different bunches of wires from moving lengthwise of the flanges 9. In order to still further securely hold the cleansing-wires, I provide a leather packing 15 between the flange 9 and the clamp-plate 11. It will be seen that the plate 8, with the hub 7 and flanges 9 thereon, constitute a holder for the U-shaped cleansing-wires 10, said U-shaped cleansing-wires being clamped midway of the ends by the plates 11 to said holder.

The operation of the device is as follows: The hub 7 of the brush is fastened to a rotary shaft and the casting or other article to be cleansed is held against the rapidly-rotating cleansing-wires 10, which remove all dirt and sand or rust from the surface of said casting in a very short time and in a very thorough manner.

When the wires become worn or broken, they may be removed and new ones substituted by unscrewing the screw 12 and removing the clamp-plate 11.

I prefer to use a flat wire similar to that shown in Fig. 6; but it is evident that a cylindrical wire may be used without departing from the spirit of my invention and also that said wires may be attached to the periphery of a rotating holder in a variety of ways without departing from the spirit of my invention.

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

1. In a rotary brush, a holder, a series of semicircular flanges upon the periphery thereof, a series of U-shaped wires, a series of clamp-plates each of said plates consisting of a semi-annular ring with semicircular grooves in the periphery thereof, and means for attaching said clamp-plates to said holder, substantially as described.

2. In a rotary brush, a holder, a series of semicircular flanges upon the periphery thereof, a series of U-shaped wires, a series of clamp-plates, each of said plates consisting of a semi-annular ring with semicircular grooves in the periphery thereof, means for attaching said clamp-plates to said holder, and a packing of soft material interposed between said U-shaped wires and said flanges, substantially as described.

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

JAMES E. COMPTON.

Witnesses:
OSCAR H. BRAGDON,
ROBERT H. LELAND.