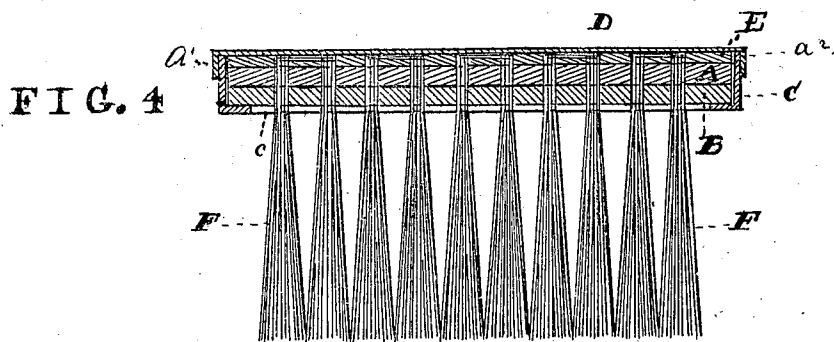
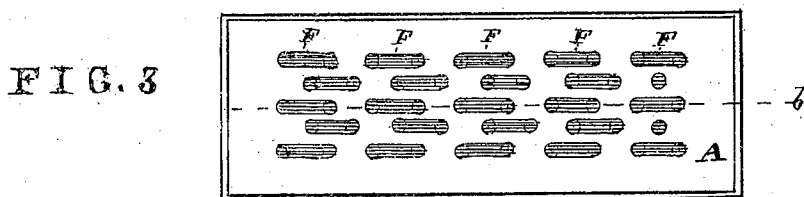
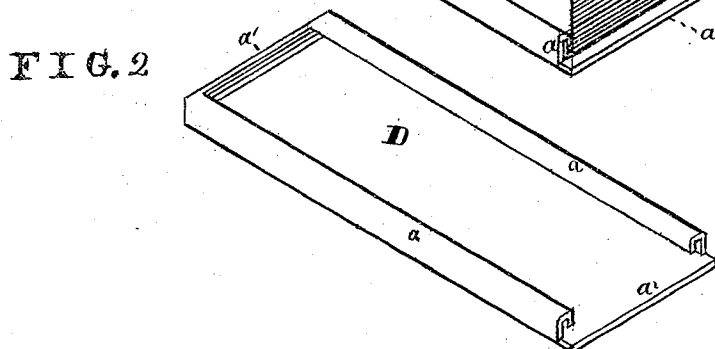
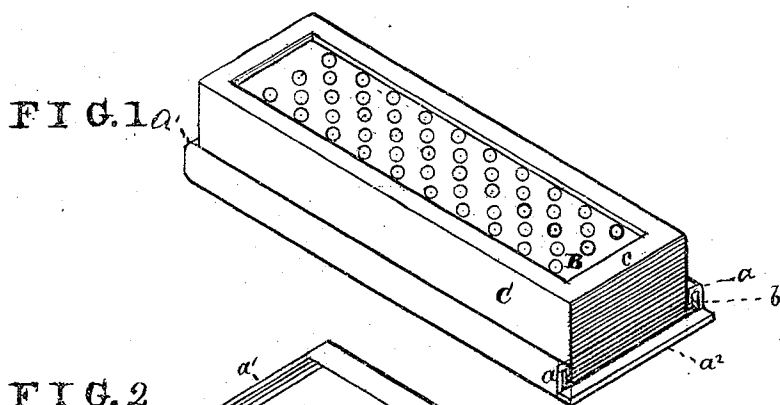


P. FARLEY.

Improvement in Steel Wire-Brushes for Foundry Use.

No. 132,528.

Patented Oct. 29, 1872.



Witnesses

Isaac Rindge
Isaac Harrison

Inventor

Philip Farley

By his Attorney

Stephen Ustick

UNITED STATES PATENT OFFICE.

PHILIP FARLEY, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN STEEL-WIRE BRUSHES FOR FOUNDRY USE.

Specification forming part of Letters Patent No. 132,528, dated October 29, 1872.

To all whom it may concern:

Be it known that I, PHILIP FARLEY, of the city of Philadelphia, in the State of Pennsylvania, have invented certain Improvements in Steel-Wire Brushes for Foundry Use, &c., of which the following is a specification:

The first part of my invention relates to the combination of a cushion of India rubber or other equivalent material with the stock and wires to give a spring to the latter at their point of connection with the stock, whereby the breaking of the wires at this point is obviated, and thus the brush is much more durable than when the wires have a rigid connection with the under side of the stock, as in the ordinary construction of the brush. The second part of my invention relates to the combination of a metallic case with the stock, whereby the cushion is held securely with the latter.

Figure 1 is an isometrical view of the case C, cap D, and cushion B, in an inverted position. Fig. 2 is a like view of the cap-plate D. Fig. 3 is a plan view of the brush with the cap D and packing-plate E removed.

Like letters in all the figures indicate the same parts.

A is a wooden stock, and B a cushion of India rubber or other equivalent material. C is a metallic case, which surrounds the stock and cushion; and D a cap, shown in detail in Fig. 2. E is a packing-plate, which I usually make of wood. The object of the plate is to prevent a rigid contact of the bent portion of the wires F with the under side of the cap D. The

said plate is pushed endwise into connection with the case C, its flanges *a a* connecting with the flanges *b b* of the case. The cushion is perforated to correspond with the stock for the connection of the wires. When the cap is brought into its position with its permanent end flange *a*¹ against the contiguous end of the case C, as seen in Fig. 1, the straight part *a*² is turned up against the other end of the case, as seen in Fig. 4. When the cap is in its secured position the stock A and cushion B are held between it and the contiguous horizontal flange *c* of the case.

As will readily appear the cushion yields to the lateral pressure of the wires and prevents their tendency to break by the continual use of the brush, as is the case with the ordinary rigid connection, consequently the brush will last much longer than ordinary brushes.

If desired the metallic case C may be dispensed with, in the use of the cushion B, by its being confined to the stock A with bolts or by other suitable means.

I claim as my invention—

1. The cushion B, in combination with the stock A and wires F, to cause a free and easy action of the latter, substantially as described.
2. The case C, in combination with the stock A and cushion B, with or without the packing-plate E, substantially in the manner and for the purpose set forth.

PHILIP FARLEY.

Witnesses:

STEPHEN USTICK,
THOMAS J. BEWLEY.