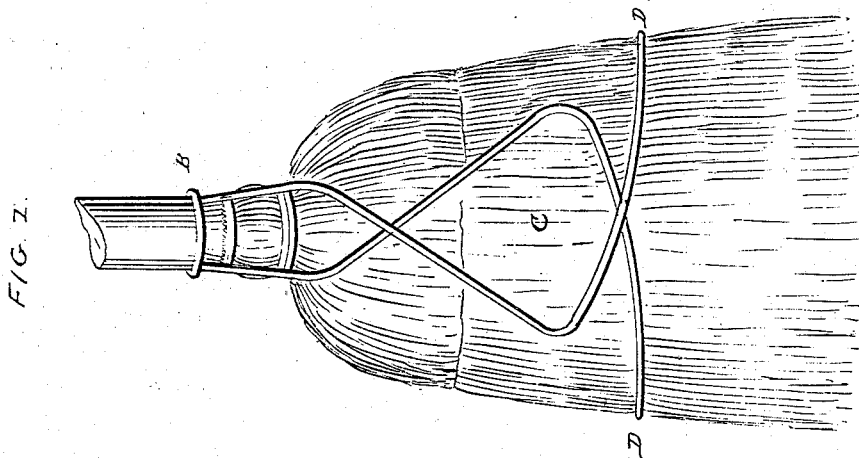
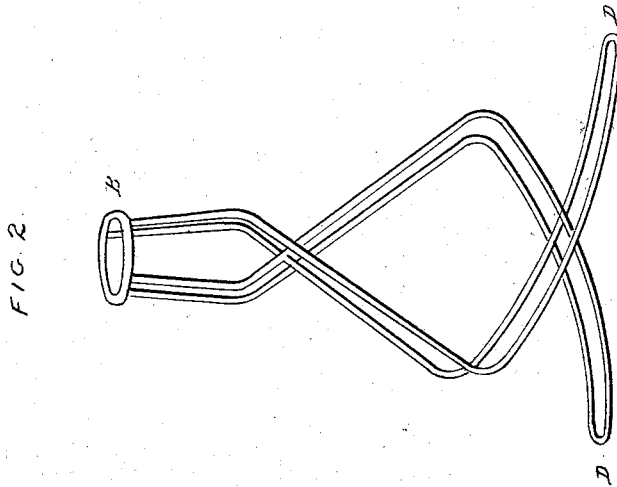


A. L. HARWOOD.

Broom Clamp.

No. 54,897.

Patented May 22, 1866.



WITNESSES:

S. A. Raman
W. P. Boutwell

INVENTOR.

Asaph L. Harwood

UNITED STATES PATENT OFFICE.

ASAPH L. HARWOOD, OF MALONE, NEW YORK.

IMPROVED BROOM-CLAMP.

Specification forming part of Letters Patent No. 54,897, dated May 22, 1866.

To all whom it may concern:

Be it known that I, ASAPH L. HARWOOD, of the town of Malone, in the county of Franklin and State of New York, have invented a new and Improved Mode of Strengthening and Supporting Corn-Brooms; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The brush or broom, ring, and wires referred to in this specification, and delineated in the drawings sent herewith, are designated by the letters following, to wit:

A, handle of the broom; B, ring to which springs are attached; C, body of the broom; D D, wire springs attached to ring, and passing around body of the broom.

Figure No. 1 represents the strengthener and supporter attached to the broom. Fig. No. 2 represents the same separate from the broom.

The nature of my invention consists in surrounding the lower end of the handle of the broom with an iron or steel ring of the thickness of three-sixteenths of an inch, from which, on each side of the broom, wires of spring-steel pass down the sides of the broom and around the edge of the same, about midway, compressing and holding the corn tightly in its proper place. These wires are two in number. They cross each other twice on each side of the

broom, and the ends enter and are welded into the ring on the handle.

It is not pretended or claimed that this mode of arranging spring-wires upon the body of the broom is a new invention, but that the ring above specified and the attaching the wires to the ring, instead of fastening them lower down on the broom by means of a screw, pin, or otherwise, is a new invention and a valuable and useful improvement. It is superior to other modes in this, that it strengthens the handle of the broom and prevents the broom breaking off from the handle, while it also secures the corn; further, that by giving much greater length to the springs more elasticity is obtained; and, further, that, no screw or pin being used to fasten the wires to the body of the broom, there is no danger of the springs ever working lower or getting broken, and they do not help to wear out the corn.

What I claim as my invention, and desire to secure by Letters Patent, is—

The mode of strengthening and supporting corn-brooms by means of the ring above described, attached to springs made of wire, arranged as above specified.

Dated at Malone, New York, this 13th day of March, 1866.

ASAPH L. HARWOOD.

Witnesses:

S. A. BEMAN,

W. P. CANTWELL.