

ADDISON WILLIS.
Improved Broom.

117,844.

Patented August 8, 1871.

Fig. 1.

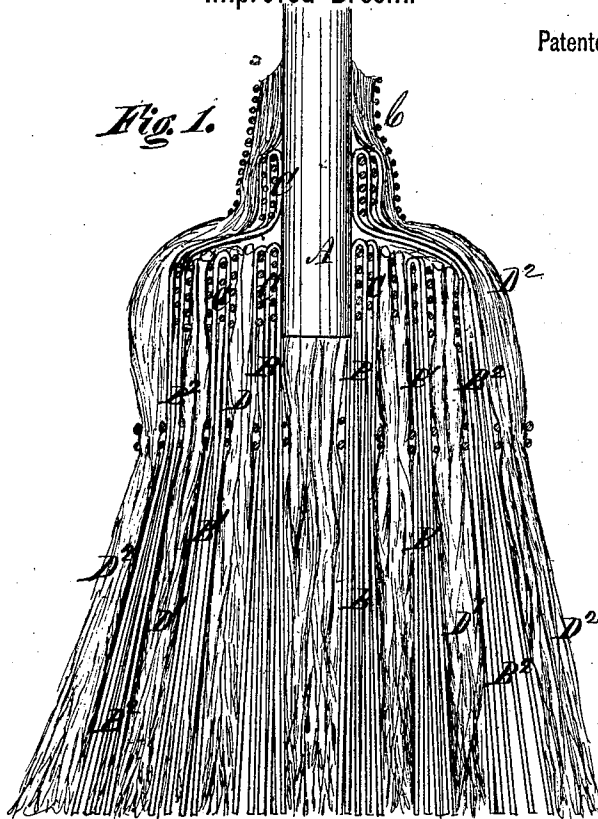
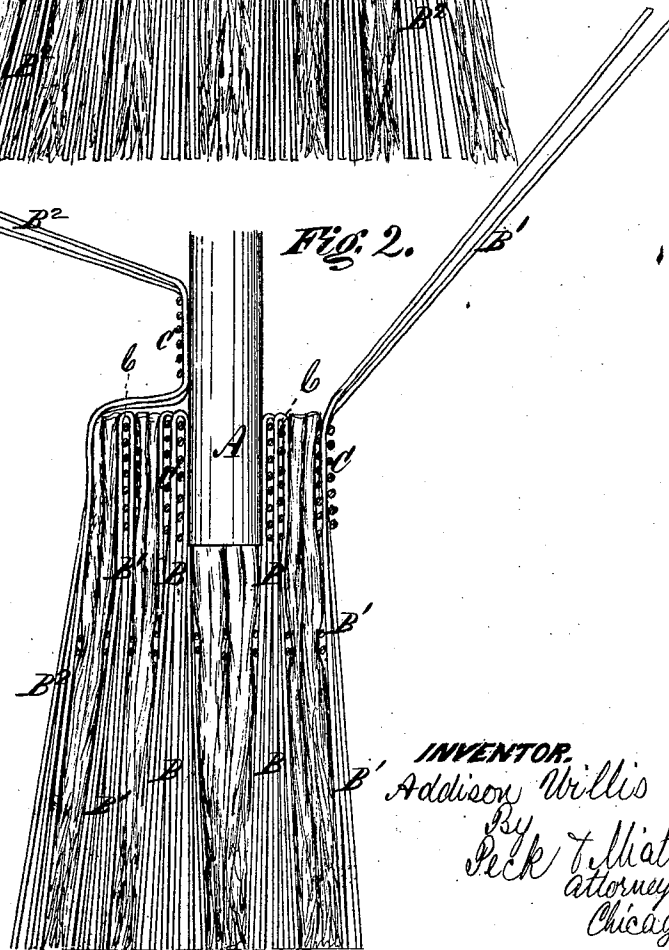


Fig. 2.



WITNESSES.

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ADDISON WILLIS, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN BROOMS.

Specification forming part of Letters Patent No. 117,844, dated August 8, 1871.

To all whom it may concern:

Be it known that I, ADDISON WILLIS, of the city of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Brooms, of which the following is a specification:

My invention has reference to a class of brooms especially adapted to heavy sweeping; and consists in binding in rattan or other wood with broom-corn in the manner hereinafter described.

In the drawing, Figure I is a sectional view of my improved broom; Fig. II, a similar view, showing the method of manufacture in detail.

A is a standard or handle, to which the brush material is attached. B is a layer of wood-splints, secured to the standard A by a wire or cord, C. D is a layer of broom-corn, attached to the handle in a similar manner; B¹, another layer of wood-splints; and D¹, another layer of broom-corn; B², a third layer of wood; and D², a third layer of the corn.

The manner of constructing the broom is as follows: A layer of wood-splints, B, of twice the length of the brush, required is bound in the middle of the layer to the handle A by winding the wire or cord C around the handle outside of the layer. The upper half of the layer, or that part extending up the handle above the wire, as shown in Fig. II, is then bent down over the wire so as to overlap the layer below the wire, and the double layer thus formed is bound as before. If this double layer is not of sufficient thickness another is laid on in the same way over the first. When the desired thickness of wood has been secured some broom-corn is next added and bound about with the wire, then another layer of wood,

and so on until the desired size of broom is reached, finishing with either wood or broom-corn, as may be preferred. Instead of making the first layer to consist of wood, corn may be first used and then wood.

The construction may also often be varied as follows: After a layer of wood-splints has been bound to the handle, but before the upper half is bent over, the proper amount of broom-corn is added and then the upper half brought down over the corn, and the wood and corn both bound together.

In order to bend the wood-splints over the wire without breaking them they are first steamed.

After the desired size of broom has been attained it is finished in the usual manner by winding wire over the part next the handle and stitching the brush with wire or cord in the customary way. The method of securing the wood-splints admits of no possibility of their working out or loose, and, in fact, it is found by experience that the broom-corn is also held more securely by this style of construction.

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

As a new article of manufacture, a broom formed of wood-splints and broom-corn, when arranged and constructed in the manner described, and secured upon the handle A by the fastenings C C, as herein shown and described.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

Witnesses: ADDISON WILLIS.
C. C. PECK,
GEO. W. MIATT.