

H. BUCK.  
Broom Head.

No. 52,263.

Patented Jan'y 30, 1866.

Fig. 1.

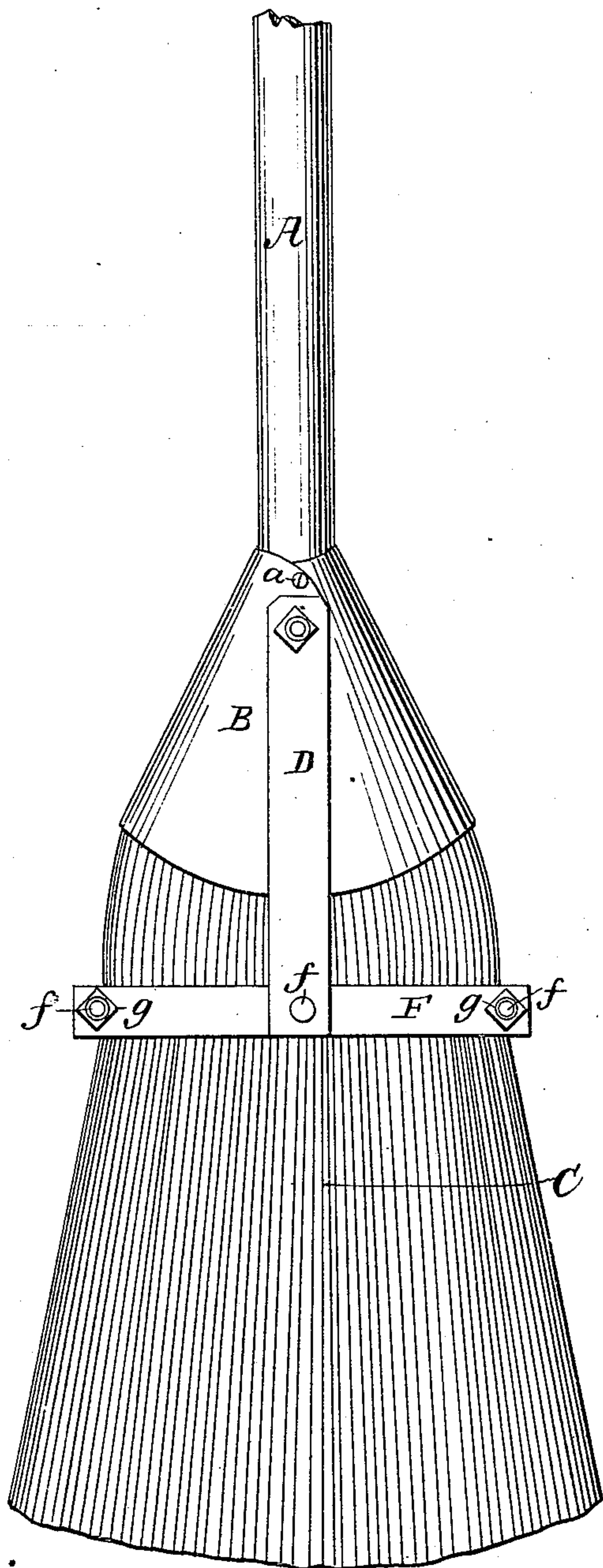
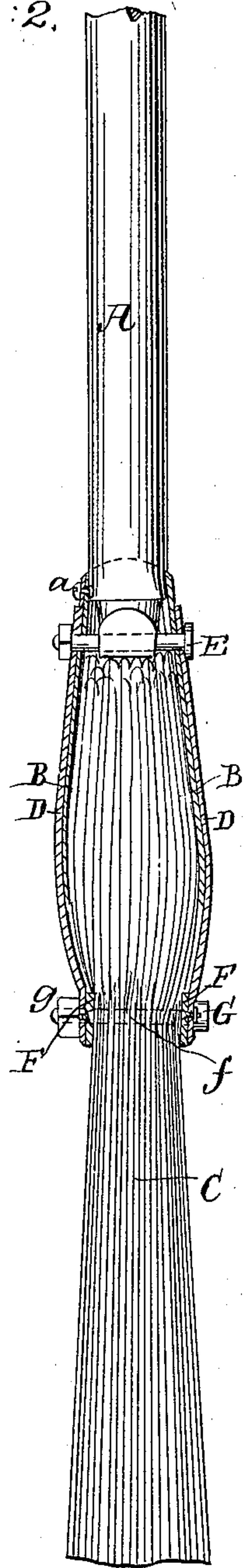


Fig. 2.



Witnesses.  
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# UNITED STATES PATENT OFFICE.

HENRY BUCK, OF HARRISBURG, PENNSYLVANIA.

## BROOM-HEAD.

Specification forming part of Letters Patent No. 52,263, dated January 30, 1866.

### *To all whom it may concern:*

Be it known that I, HENRY BUCK, of Harrisburg, in the county of Dauphin and State of Pennsylvania, have invented new and useful Improvements in Broom-Heads; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, which are made part of this specification, and in which—

Figure 1 is a side elevation of a broom embodying my invention. Fig. 2 is a central longitudinal section of the same.

Similar letters of reference indicate corresponding parts in the two figures.

This invention relates to a broom in which the straw or equivalent material may be removed from its retaining device when it becomes inefficient by wear and replaced by a fresh bunch or quantity, so that the farmer, who can readily obtain the straw from broom-corn or other material, can, when once in possession of the broom, renovate the same at pleasure, and thus keep it in use for a very long time.

The improvement consists in a peculiar manner of combining and arranging the retaining or clamping devices and socket and attaching the same to the handle, as hereinafter described.

In order that others skilled in the art to which my invention appertains may be enabled to fully understand and use the same, I will proceed to describe it.

In the accompanying drawings, A represents the handle, B the socket, and C the straw or other suitable sweeping material. The handle is inserted into the upper end of the socket B, and the socket and handle are connected together by a screw or rivet, *a*, this being the first operation in the construction of the broom after the several parts are fashioned.

D D are two vertical arms which embrace the two flat sides of the socket B, and which are attached at their upper ends to the latter at a point near its top by a bolt, E, which passes through both the arms D D, through

the socket B, and through the lower end of the handle A, which latter extends somewhat below the pivot *a*, as seen in Fig. 2. Hence, while the bolt E connects the arms D and socket B, it also effects a rigid connection between the handle and other parts.

F F are cross-bars attached by a clinched or threaded bolt, *f*, to the lower ends of the arms D D. The bolt *f* passes through the straw C from side to side.

The arms D are composed of elastic pieces of metal, whereas the bars F are rigid or inelastic, so that by screwing up the nuts *g* on the bolts G, which connect the bars F at their extremities, the said bars F will be made to approach each other and so tightly clamp between them the straw C, the lower ends of the arms D bending freely to admit of the adjustment of the cross-bars.

The arms D extend below the socket B sufficiently to permit the requisite deflection of the said arms to occur between the socket and the bars, so that no movement or adjustment of the socket is needed to make it conform to the adjustment of the bars or the deflection of the arms.

The bolts G can be readily removed and the bars F moved outward from each other to permit the old straw to be taken out and a new supply put in.

In this broom the socket B, requiring no adjustment whatever, may be of the simplest construction, and hence it is made of a single piece of metal, cut out, bent, and riveted in the proper form.

Having thus described my invention, the following is what I claim as new and desire to secure by Letters Patent:

The combination, with the socket B, of the elastic arms D D and clamping-bars F F, when said bars are arranged so as to project below the socket, as and for the purpose specified.

HENRY BUCK.

Witnesses:

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