

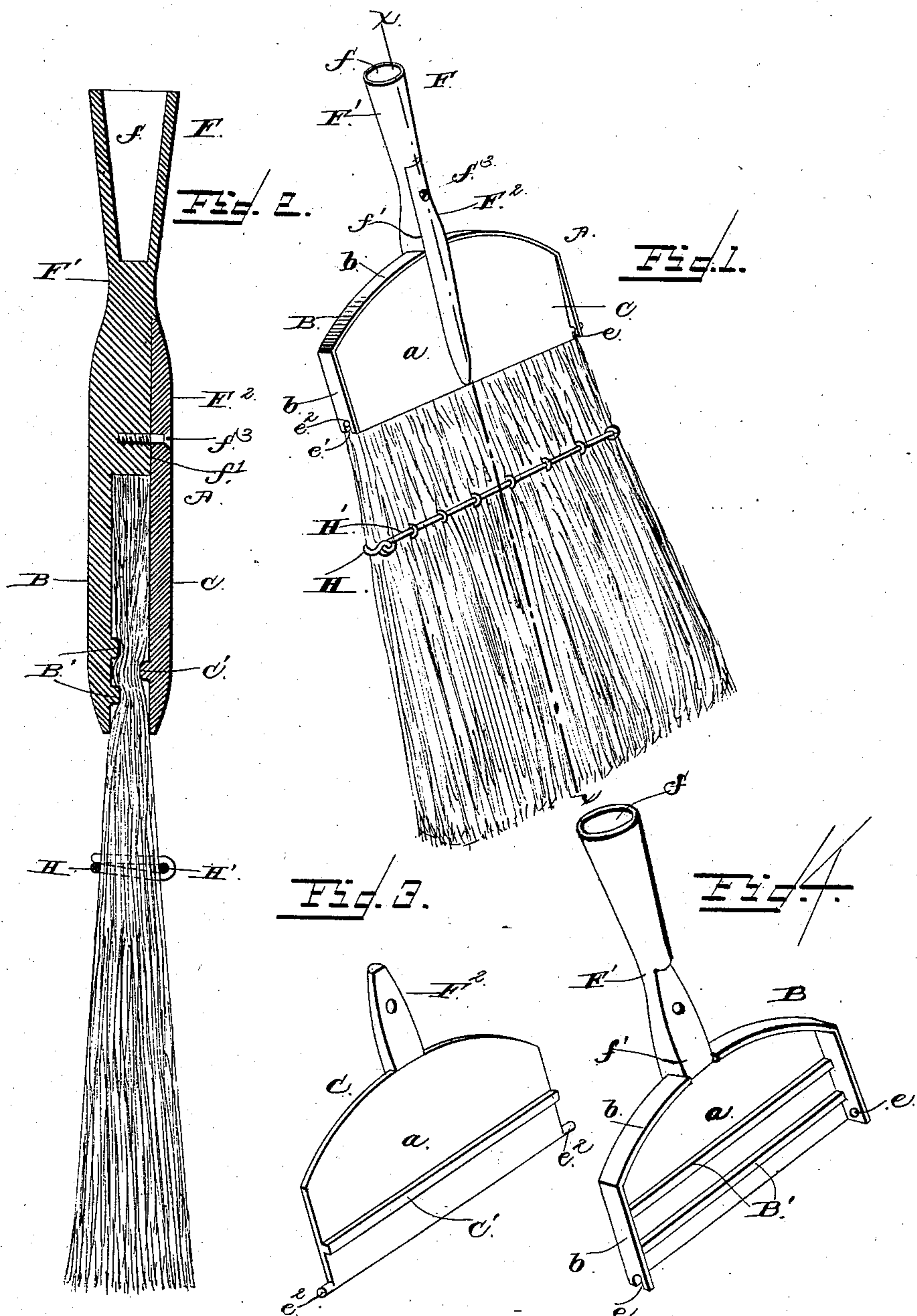
(Model.)

G. H. KIMBLER.

BROOM HEAD.

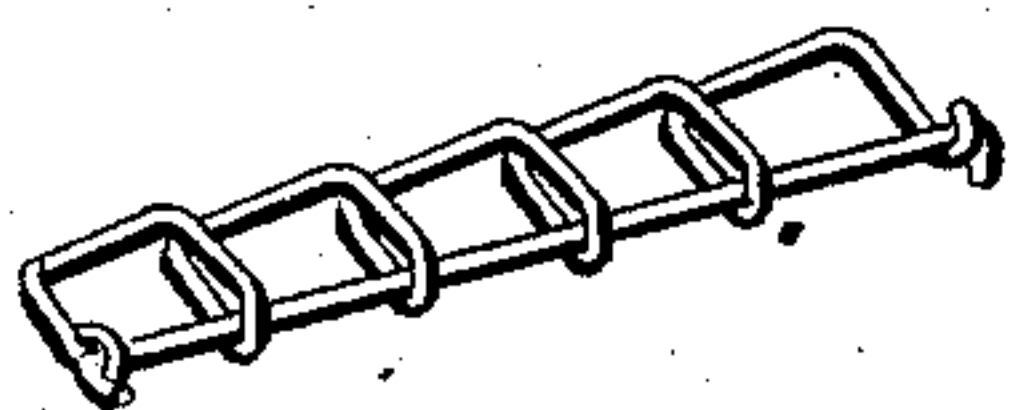
No. 389,657.

Patented Sept. 18, 1888.



Witnesses

*M. S. Fowler*  
*W. Bernhard*



*Fig. 5.*

By his Attorneys

Inventor  
*G. H. Kimbler*

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# UNITED STATES PATENT OFFICE.

GEORGE HARVY KIMBLER, OF CREELSBOROUGH, KENTUCKY.

## BROOM-HEAD.

SPECIFICATION forming part of Letters Patent No. 389,657, dated September 18, 1888.

Application filed September 13, 1886. Serial No. 213,419. (Model.)

*To all whom it may concern:*

Be it known that I, GEORGE HARVY KIMBLER, a citizen of the United States, residing at Creelsborough, in the county of Russell and State of Kentucky, have invented new and useful Improvements in Broom-Heads, of which the following is a specification.

My invention relates to improvements in broom-heads; and it consists of the peculiar combination and novel construction and arrangement of the various parts for service, substantially as hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, which illustrate a broom-head embodying my invention, Figure 1 is a perspective view of the device with the corn therein. Fig. 2 is an enlarged vertical sectional view on the line  $xx$  of Fig. 1. Fig. 3 is a detached perspective view of one part or section of the head, and Fig. 4 is a like view of the other section of the head. Fig. 5 is a detail view of the securing wire detached.

Referring to the drawings, in which like letters of reference denote corresponding parts in all the figures, A designates my improved broom-head, which is made in two sections or parts, B C, which are detachably connected together by means which I will describe presently.

Each section of the broom-head comprises a flat plate,  $a$ , which is made straight on its lower edge and curved on its upper edge, and the section B of the head has right-angled flanges  $b$  around its several side and upper edges, which project over the corresponding edges of the head-section C, so that the edges of the latter are concealed within the flanges of the section B. The inner opposing face of the section B is provided with two longitudinal strips,  $B'$ , which are formed or cast in a single piece therewith, and the inner opposing face of the section C has a like flange or strip,  $C'$ , that is cast therewith in like manner. The strips  $B'$  of the section B are separated a short distance and are parallel with each other, and when the sections are connected together the flange or rib  $C'$  of the section C comes opposite the space between the ribs or flanges of the section B. The broom-corn is passed into

the head, and the ribs or strips of the sections lie on opposite sides of the same, so that they will bind and compress the corn very firmly together within the head and prevent the displacement thereof.

One of the flanges of the section B is provided at its lower end with an opening or aperture,  $e$ , and the other flange of the section B is provided with an open slot,  $e'$ ; and the lower angles or corners of the section C are provided with projecting pins or lips  $e^2$ , which fit or enter the aperture and slot  $e e'$ , respectively, of the section B to detachably connect the lower edges of the sections B C of the broom-head together.

F designates the metallic socket-piece for the broom-handle. This socket-piece is also made in two sections,  $F' F^2$ , which are cast integrally with and extend upward from the sections B C, respectively, of the head A. The section  $F'$  of the handle socket-piece is provided at its upper end with a flared open socket,  $f$ , into which the reduced end of the handle is fitted very securely in any suitable manner, and at its lower end the socket-piece is cut away to provide a projecting portion,  $f'$ , that extends to one side of the section B, as shown. The upper end of the section  $F^2$  of the socket bears very firmly against the cut-away portion  $f'$  of the section  $F'$  and is detachably secured thereto by a screw,  $f^3$ , that passes through aligned openings in the sections  $F' F^2$ .

The operation of my invention is as follows: To fill the head A of the broom with corn, the socket-sections  $F' F^2$  are first disconnected by removing the screw  $f^3$ , and then the sections B C of the head are separated by slipping the pin or lip  $e^2$  out of the slot  $e'$  and then withdrawing the other lip  $e^2$  out of the aperture  $e$ . The corn is now laid in order in the section B of the head in due regularity and in proper quantities, after which the section C of the head is connected with the section B by engaging the lips or pins  $e^2$  with the opening and slot  $e e'$ , respectively, in the order named, and the screw  $f^3$  is now inserted through the socket-sections to secure the sections B C together very firmly. The ribs  $B' C'$  of the head-sections bind very firmly upon the corn at or near the point where the latter emerges from



the head and thus serves to more securely hold it in place, and after the head-sections have been secured together in the manner specified the securing-wire or cord H is passed through 5 the broom-corn beneath the head A and exterior thereto. The wire H is first passed through one strand or portion of the corn, then doubled upon itself and brought out on the same side of the corn through which it was 10 passed, thus leaving an eye or loop on the opposite side of the corn. This operation is repeated the desired number of times to form a series of eyes that project from one side of the corn only, and through these eyes is passed a 15 connecting-wire, H', which is secured at its ends to the extremities of the wire H, thus very securely connecting the corn together and materially strengthening the broom.

It will thus be seen that I provide a very 20 simple and strong broom-head, which can be very easily operated to separate and connect the parts thereof to remove the old broom-corn and replace it with new corn, and that the device effects a very great economy to the 25 user, as he can thereby supply himself with the corn at a very trifling expense and fit it in the head himself.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is— 30

1. A broom having the binding-wire H passed through the corn thereof and formed into a series of aligned eyes or loops that are all arranged on one side of the corn, and the wire H', passing through the said aligned eyes 35 and connected to the ends of the wire H, substantially as described.

2. The broom-head herein described, consisting of the sections B C and the sectional socket-piece comprising the sections F' F<sup>2</sup>, 40 formed integrally with the sections B C, respectively, the section F' having the cut-away portion f', against which the section F<sup>2</sup> rests, and the set-screw inserted through the sections F<sup>2</sup> F' to secure the device together, as specified. 45

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

GEORGE HARVY KIMBLER.

Witnesses:

LOGAN VAUGHAN,  
J. S. DUVAL.