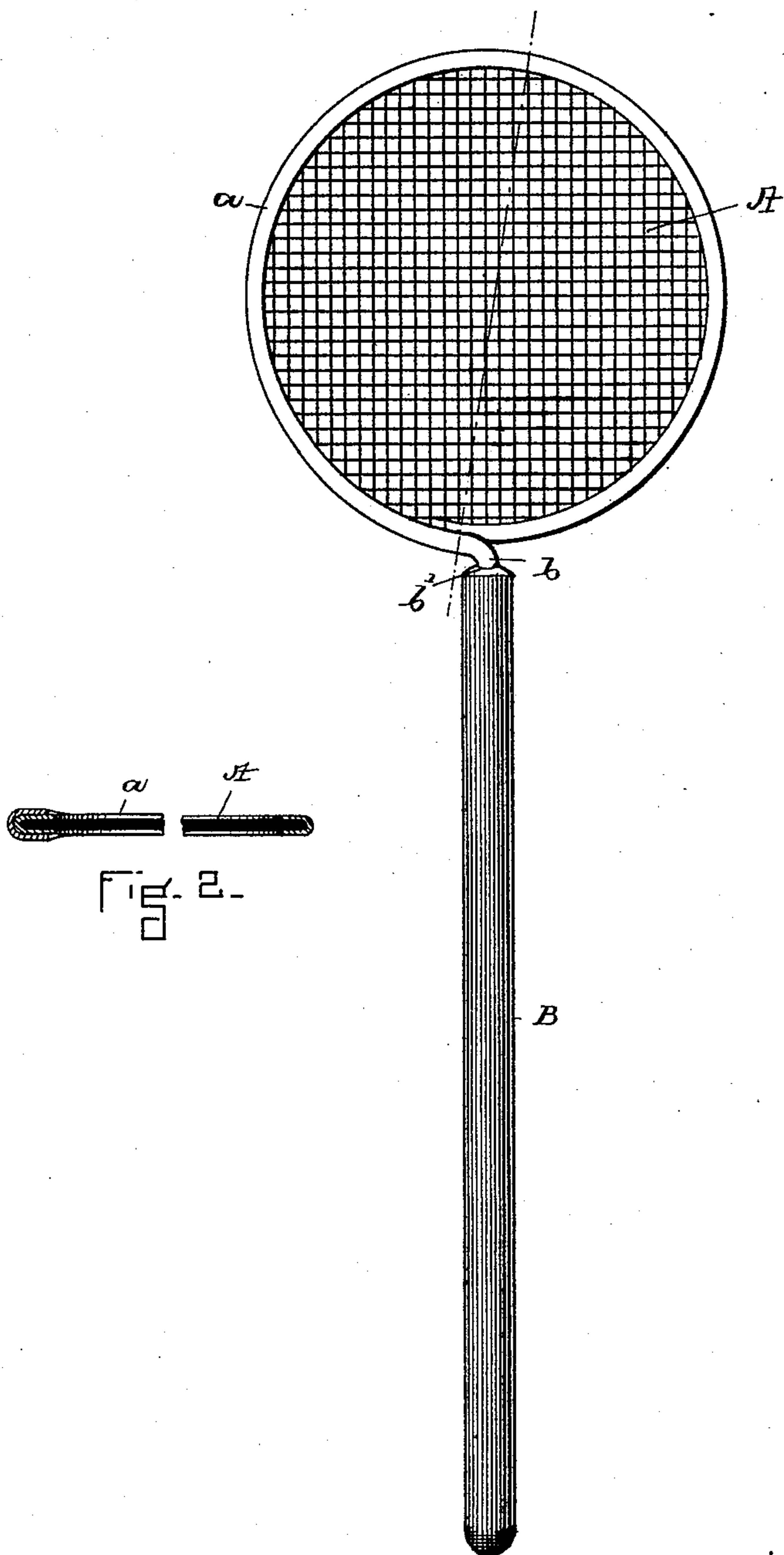


(No Model.)

G. S. CHASE.
INSECT DESTROYER.

No. 407,574.

Patented July 23, 1889.



WITNESSES.

J. W. Dolan.

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FIG. 1.

INVENTOR.

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UNITED STATES PATENT OFFICE.

GEORGE S. CHASE, OF CAMBRIDGE, MASSACHUSETTS.

INSECT-DESTROYER.

SPECIFICATION forming part of Letters Patent No. 407,574, dated July 23, 1889.

Application filed May 8, 1889. Serial No. 309,987. (No model.)

To all whom it may concern:

Be it known that I, GEORGE S. CHASE, of Cambridge, in the county of Middlesex and State of Massachusetts, a citizen of the United States, have invented a new and useful Improvement in Insect-Destroyers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification, in explaining its nature.

The invention relates to an insect-destroyer comprising a piece of wire-gauze of comparatively large mesh, preferably circular in shape and having about its edge a metal binding-rim which does not project to any material extent from either surface of the gauze, and which has an end bent at a right angle to the part which acts as a binding, by which it is secured to a handle. The gauze is preferably not more than three or four inches across in its widest place, and it is made small and shaped to have no projection extending from its surface, in order that it may be operated or struck against small surfaces as well as large to destroy insects, the rim not projecting sufficiently to prevent the entire surface of the gauze being brought against the surface which is struck.

I am aware that the Patent No. 227,706 describes a fan made of wire gauze or cloth having a binding of soft material, and provided with a flexible and elastic handle which extends from the bottom of the fan very nearly to the top, and which is designed for the destruction of insects. This fan, however, is quite large and the extension of the handle across its center prevents it from being moved flatly against a wall or other surface, and provides a space or cavity near the center of the fan along each side of the handle in which insects are comparatively secure. By my invention I overcome this defect by not extending the handle across the gauze, and by not arranging any projection about the gauze that shall in any way interfere with the gauze striking its whole area against a wall or other surface.

In the drawings, Figure 1 is a plan view of my invention clearly showing its construction and mode of operation. Fig. 2 is an enlarged section taken on the dotted line of Fig. 1.

A represents the wire-gauze. It is represented as cut to a circular shape and as hav-

ing a comparatively large mesh. Its edge is covered by a metal binding *a*. This is preferably made from a flat strip which is bent at the center of its length to inclose the edge of the gauze, and the edges of which strip are then closed forcibly upon the gauze. The said metal strip is thin and when applied to the gauze the edge projects but slightly beyond the surface of the gauze. This metal-bound gauze I prefer to unite to the handle B by a section of the metal forming the rim or binding, and in Fig. 1 I have represented the end *b* bent at a right angle to the rim or binding and driven into a hole *b'* in the end of the handle. It is not essential, however, that the connection between the handle and the rim be thus formed, as it may be made by a separate piece. It is essential, however, that the gauze be connected with the handle without raising any projection from either surface thereof, which shall prevent its entire area being brought against a flat surface. It is desirable that the connection between the wood handle and the rim about the gauze be yielding in order that the gauze may be bent at an angle in relation to the handle, and in the construction represented in Fig. 1 this yielding effect is obtained in the lower part of the binding-clamp itself, the extension connecting the rim with the handle being quite stiff.

Having thus fully described my invention, I claim and desire to secure by Letters Patent of the United States—

As an improved article of manufacture, an insect-killer comprising a small sheet of wire-gauze, and a metal binding-strip about the edge of said gauze, formed from flat metal bent at the center of its width to lap upon the edge of said sheet of gauze, to which it is secured by pressure, one end of which folded binding-strip is bent outward and secured to a handle, whereby there is no material projection of the strip from the surface of the gauze, and a yielding connection, in one piece with the binding and between the gauze and the handle, is obtained, substantially as described.

GEORGE S. CHASE.

In presence of—

F. F. RAYMOND, 2d,
J. M. DOLAN.