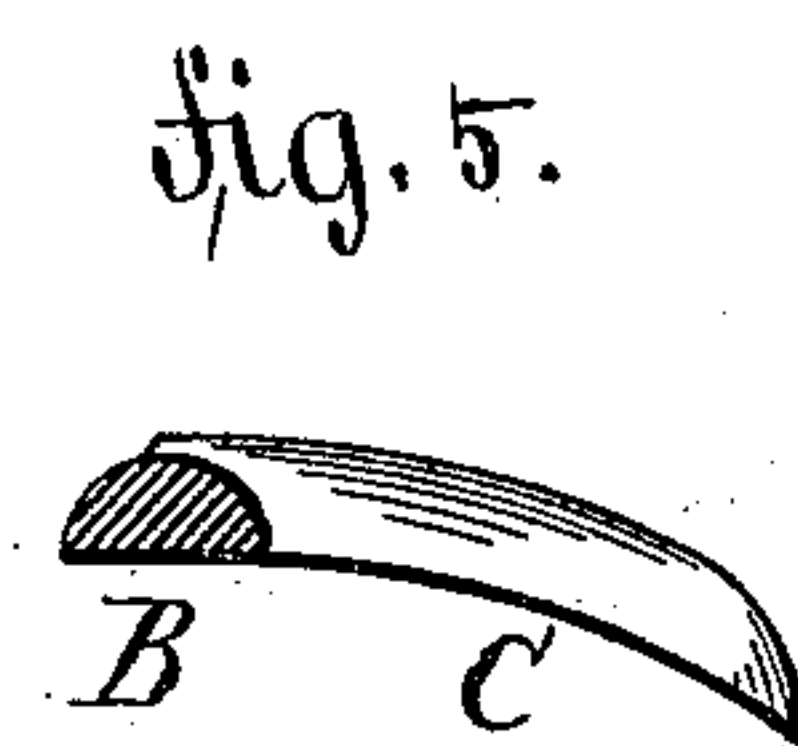
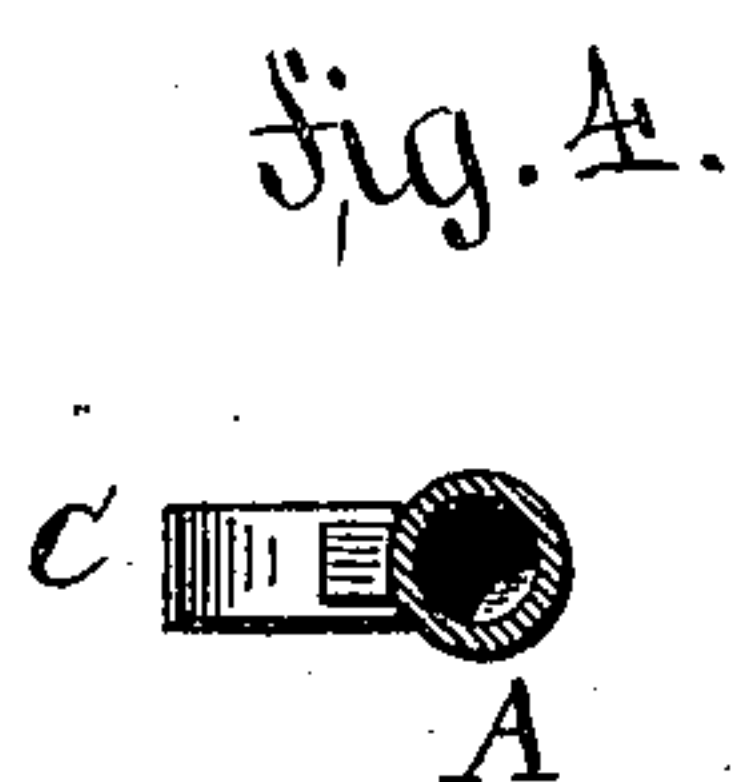
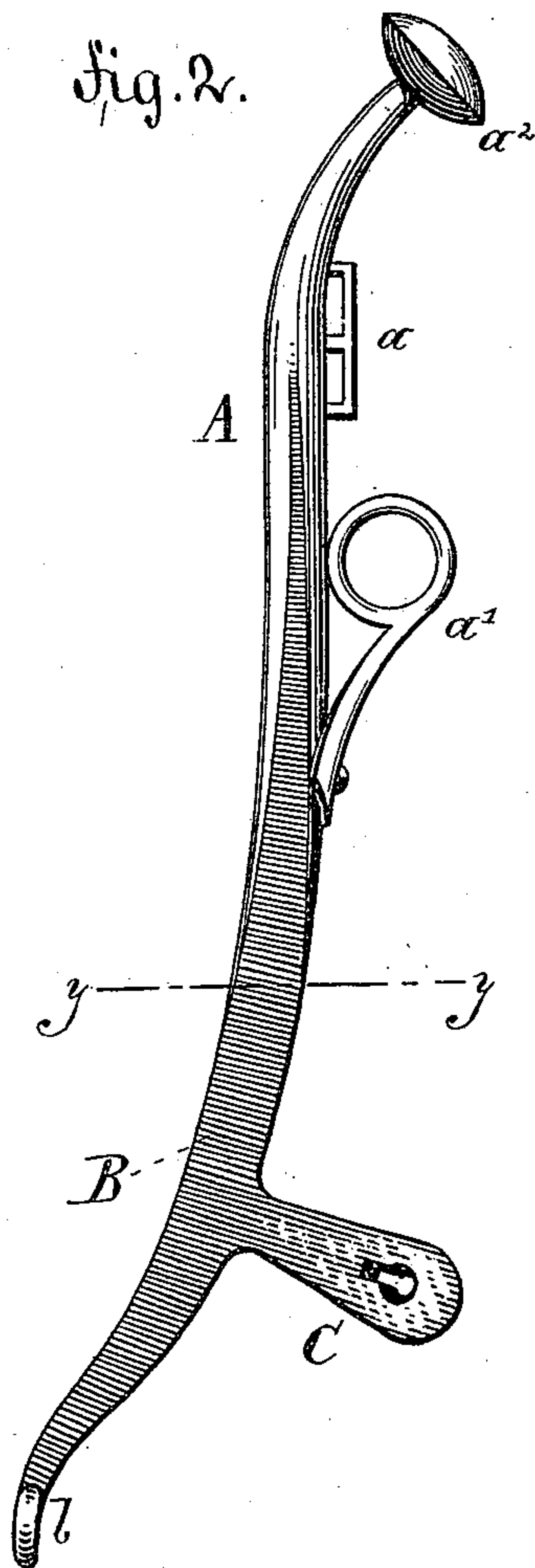
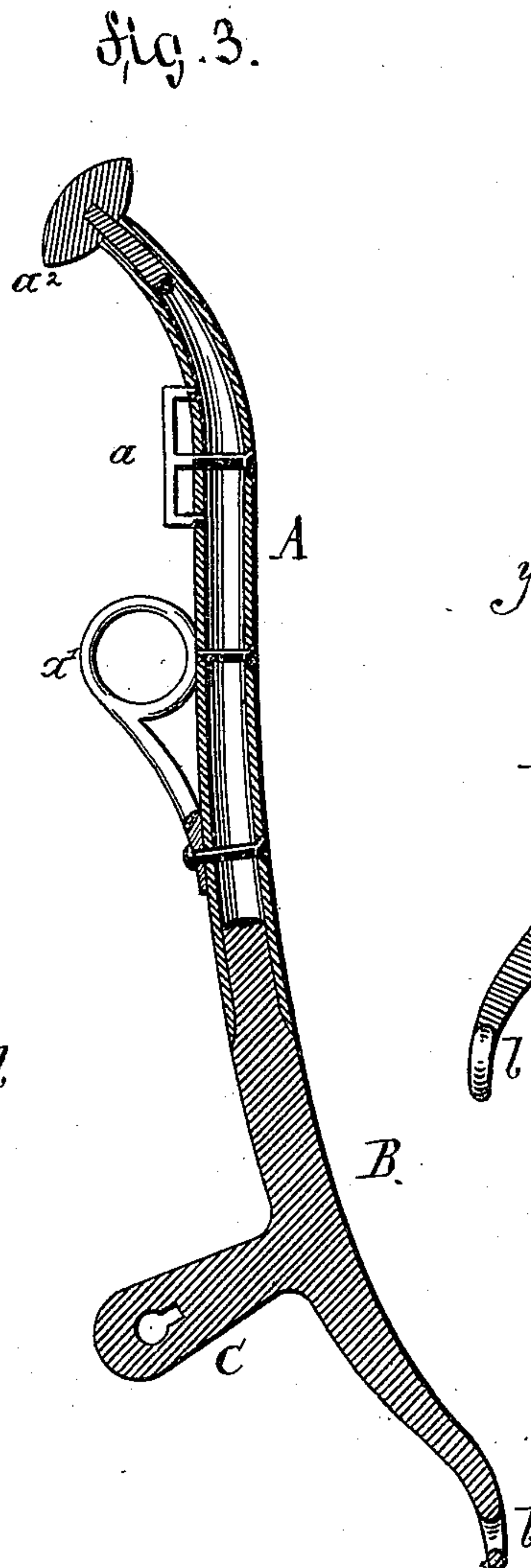
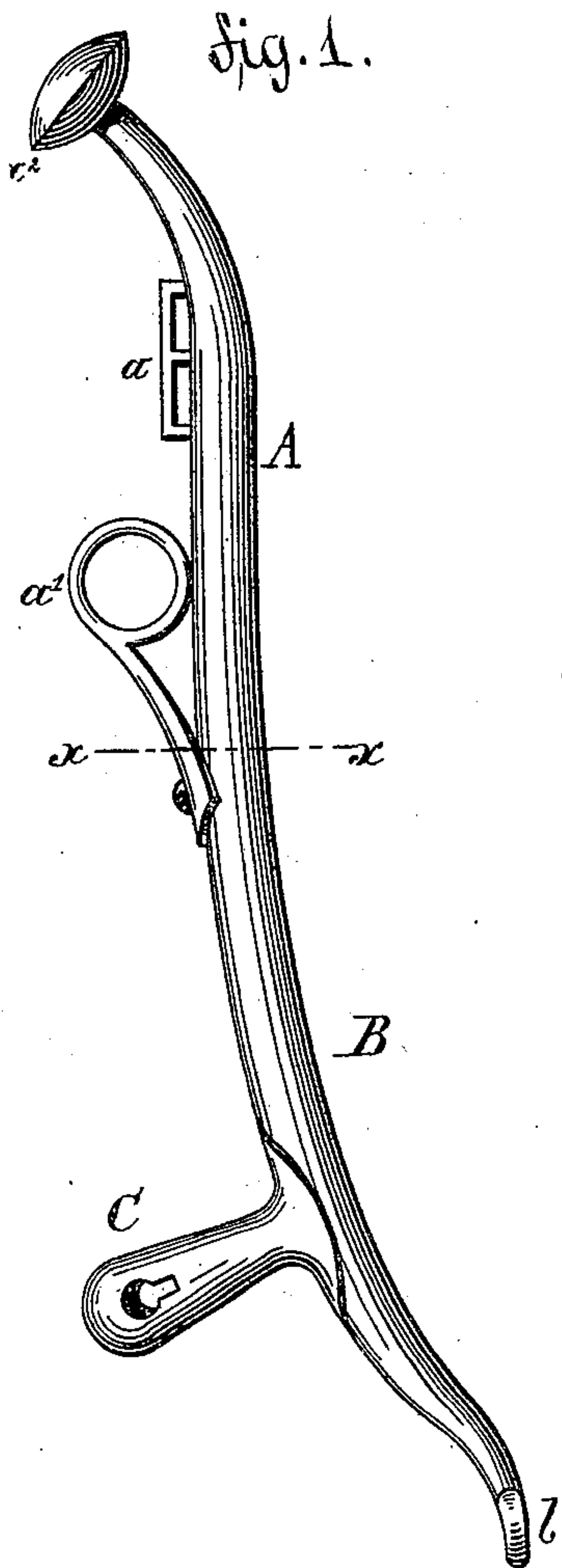


(No Model.)

A. BOENING.
HAME.

No. 300,838.

Patented June 24, 1884.



WITNESSES:
For. N. Rosenbaum.
Martin Petry.

INVENTOR
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UNITED STATES PATENT OFFICE.

ADOLF BOENING, OF NEW YORK, N. Y.

HAME.

SPECIFICATION forming part of Letters Patent No. 300,838, dated June 24, 1884.

Application filed April 29, 1884. (No model.)

To all whom it may concern:

Be it known that I, ADOLF BOENING, of the city, county, and State of New York, have invented certain new and useful Improvements in Hames, of which the following is a specification.

This invention has reference to an improved metallic hame, which combines great strength at the point of strain with a reduced size and weight; and the invention consists of a metallic hame composed of an upper tubular part and a lower solid part of wrought-iron welded to the upper part, having a draft-eye welded thereto.

In the accompanying drawings, Figure 1 represents a front elevation of my improved hame; Fig. 2, a vertical central section; Fig. 3, a rear elevation; and Figs. 4 and 5 are horizontal sections of the same, respectively, on lines *xx* and *yy*, Figs. 1 and 2.

Similar letters of reference indicate corresponding parts.

A in the drawings represents the hollow tubular upper part of my improved metallic hame, which part is made of gas-pipe, and provided with the usual loops, *a*, and a ring, *a'*, riveted to said hollow part, for fastening the collar-strap and guiding the rein. The upper end of the tubular part A is provided with a pommel-shaped terminal, *a''*, while the lower end is welded to the lower part, B, of the hame, which is made of solid wrought-iron, and provided at the lower end with a loop, *b*, for the hame-strings, and with a draft-eye, C, that is also made of wrought-iron and welded to the solid part B, so that it forms in effect an integral part of the same. The rear

of the hame and draft-eye C is made flat, so as to fit closely to the padded harness-collar. As the trace is attached to the draft-eye C of the hame, the main pulling-strain is exerted on the lower part of the hame, which lower part has to be made strongest, while the upper part can be made lighter, as it is exposed to less severe strains.

By combining in a hame an upper tubular part with a solid wrought-iron lower part the weight of the hame is reduced, as the solid lower part requires a smaller cross-section, while the strength of the same is considerably increased as compared to the tubular gas-pipe hames, in which the draft-eye, being riveted to the hame, is liable to be torn by the strains exerted thereon by the trace.

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

1. A wrought-iron hame composed of an upper tubular part and a lower solid part welded to the upper part, substantially as set forth.

2. A wrought-iron hame composed of an upper tubular part and a lower solid part welded to the upper part, and provided with a draft-eye welded to the lower part, substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

ADOLF BOENING.

Witnesses:

SIDNEY MANN,
OTTO RISCH.