

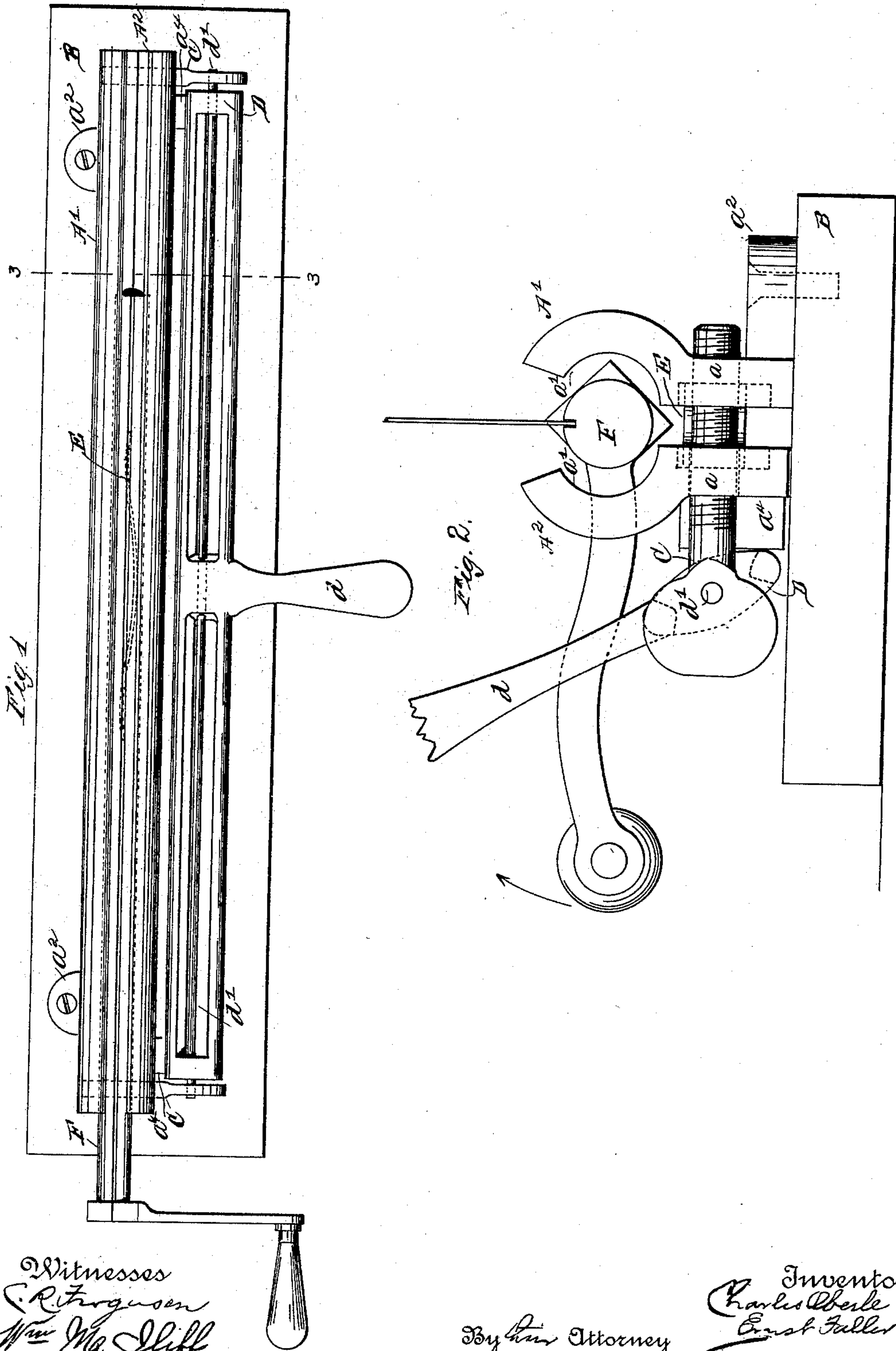
(No Model.)

2 Sheets—Sheet 1.

C. OBERLE & E. FALLER.  
GUTTER BEADING MACHINE.

No. 509,936.

Patented Dec. 5, 1893.



Witnesses  
C. R. Ferguson  
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# UNITED STATES PATENT OFFICE.

CHARLES OBERLE AND ERNST FALLER, OF NORTH TARRYTOWN, NEW YORK, ASSIGNORS TO MAX H. C. BROMBACHER, OF SAME PLACE.

## GUTTER-BEADING MACHINE.

SPECIFICATION forming part of Letters Patent No. 509,936, dated December 5, 1893.

Application filed August 13, 1892. Serial No. 443,060. (No model.)

*To all whom it may concern:*

Be it known that we, CHARLES OBERLE and ERNST FALLER, both of North Tarrytown, Westchester county, and State of New York, have invented a certain new and useful Improvement in Gutter-Beading Machines, of which the following is a specification.

At the edges of so-called tin roofs the metal is usually bent into the form of a bead for the purpose of giving an attractive finish as well as affording stiffness. Our improvement relates to a machine for doing this work.

We will describe a gutter beading machine embodying our improvement and then point out the novel features in a claim.

In the accompanying drawings, Figure 1 is a top view of a machine embodying our improvement. Fig. 2 is an end view thereof. Fig. 3 is a transverse section taken at the plane of the dotted line 3 3 Fig. 1.

A' A<sup>2</sup> designate two jaws having parallel or approximately parallel shank portions *a* and opposite arc-shaped portions *a'*. The jaw A' is provided with lugs *a*<sup>2</sup>, by which it is secured, through the agency of screws or otherwise, to a suitable base-piece B. The shank of the jaw A<sup>2</sup> has holes through which loosely pass screws, C, that enter tapped holes in the shank of the jaw A'. The jaw A<sup>2</sup> may, therefore, slide bodily toward and from and in parallelism, with the jaw A'. The screws, C, have heads through which is fulcrumed a cam lever D, represented as made of skeleton form. The fulcrum consists of a pin *d'* passing through the heads of the screws and also through the cam lever. This pin may be withdrawn at any time. The cam lever, D, contacts with blocks or projections *a*<sup>4</sup> formed on the outer side of the shank of the jaw A<sup>2</sup>. Hence, by rocking the cam lever in one direction the jaw A<sup>2</sup> may be forced along the screws C toward the jaw A', and by rocking the cam lever in the reverse direction, the jaw A<sup>2</sup> will be permitted to move away from the jaw A'

under the influence of a spring, E, which is interposed between the two jaws. The cam lever is provided with a handle *d* which may be operated by the hand or foot. Obviously, if the fulcrum pin *d'* of the cam lever, D, is withdrawn and the screws turned and afterward the cam lever is re-fulcrumed to the screws, the action of the jaw A<sup>2</sup> relatively to the jaw A' under the influence of the cam lever may be varied. A core piece, F, of ordinary form is inserted between the arc-shaped portions of the two jaws when the latter are opened. This core piece is of cylindric form with a longitudinal groove at one point for the reception of the edge of a piece of sheet metal. After the jaws have been closed by the cam lever, the handle of the core piece F will be rotated to draw the metal around within the jaws to form a gutter.

Our improvement consists in the particular way of combining the jaws and cam lever, as this is very advantageous in comparison with the old methods.

What we claim as our invention, and desire to secure by Letters Patent, is—

In a gutter beading machine, the combination with a suitable core-piece, of a fixed jaw and a movable jaw,—adjustable screws passing the movable jaw and tapped into the fixed jaw, one near each end,—a fulcrum pin carried by and extending between the heads of said screws,—and a cam lever fulcrumed on said pin and adapted to engage the movable jaw so that the same may be moved bodily in parallelism with the fixed jaw and core-piece,—substantially as set forth.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

CHARLES OBERLE.  
ERNST FALLER.

Witnesses:

F. V. MILLARD,  
MAX H. C. BROMBACHER.