

G. HAYES.
Skylights.

No. 143,151.

Patented September 23, 1873.

Fig: 2

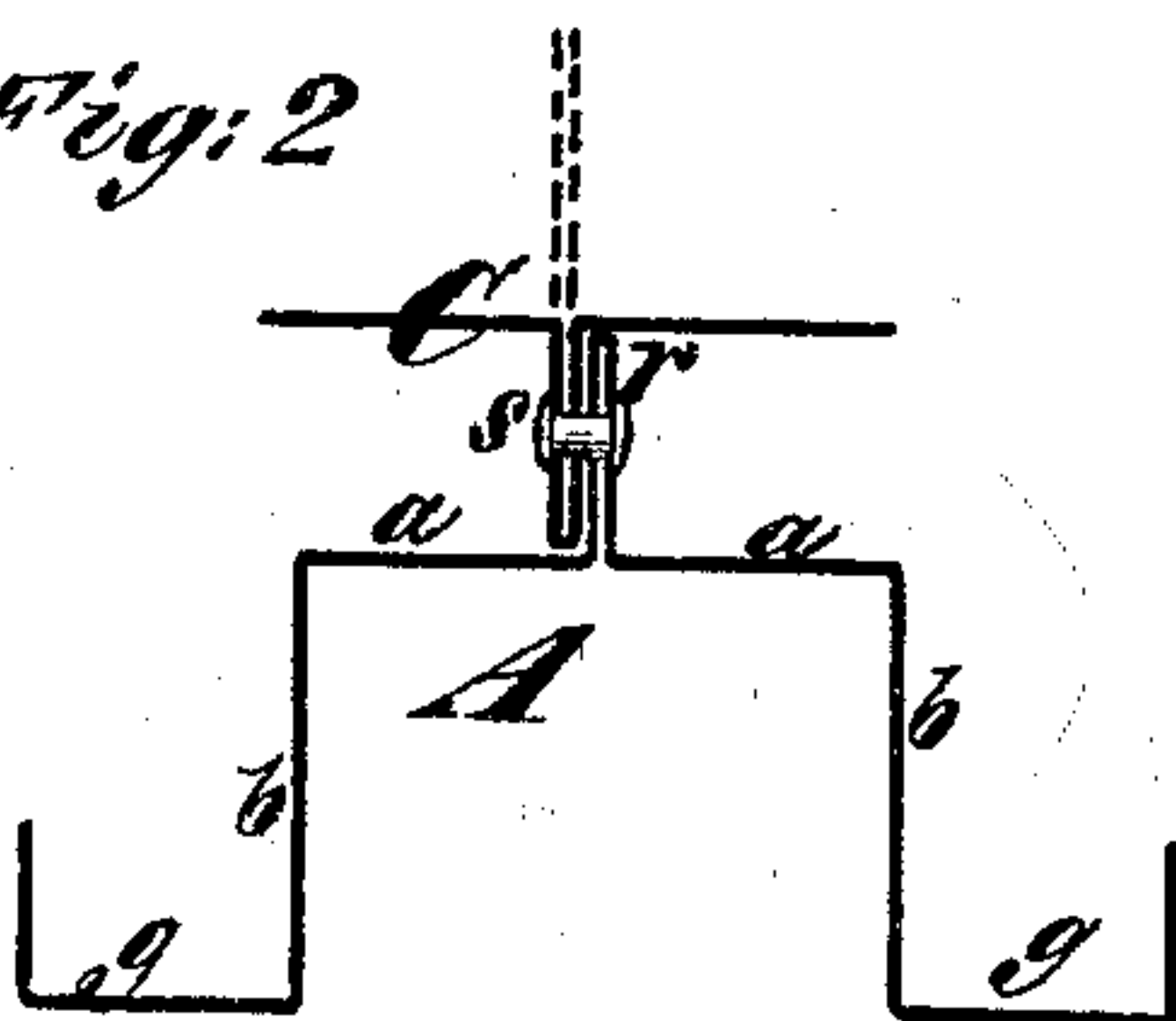
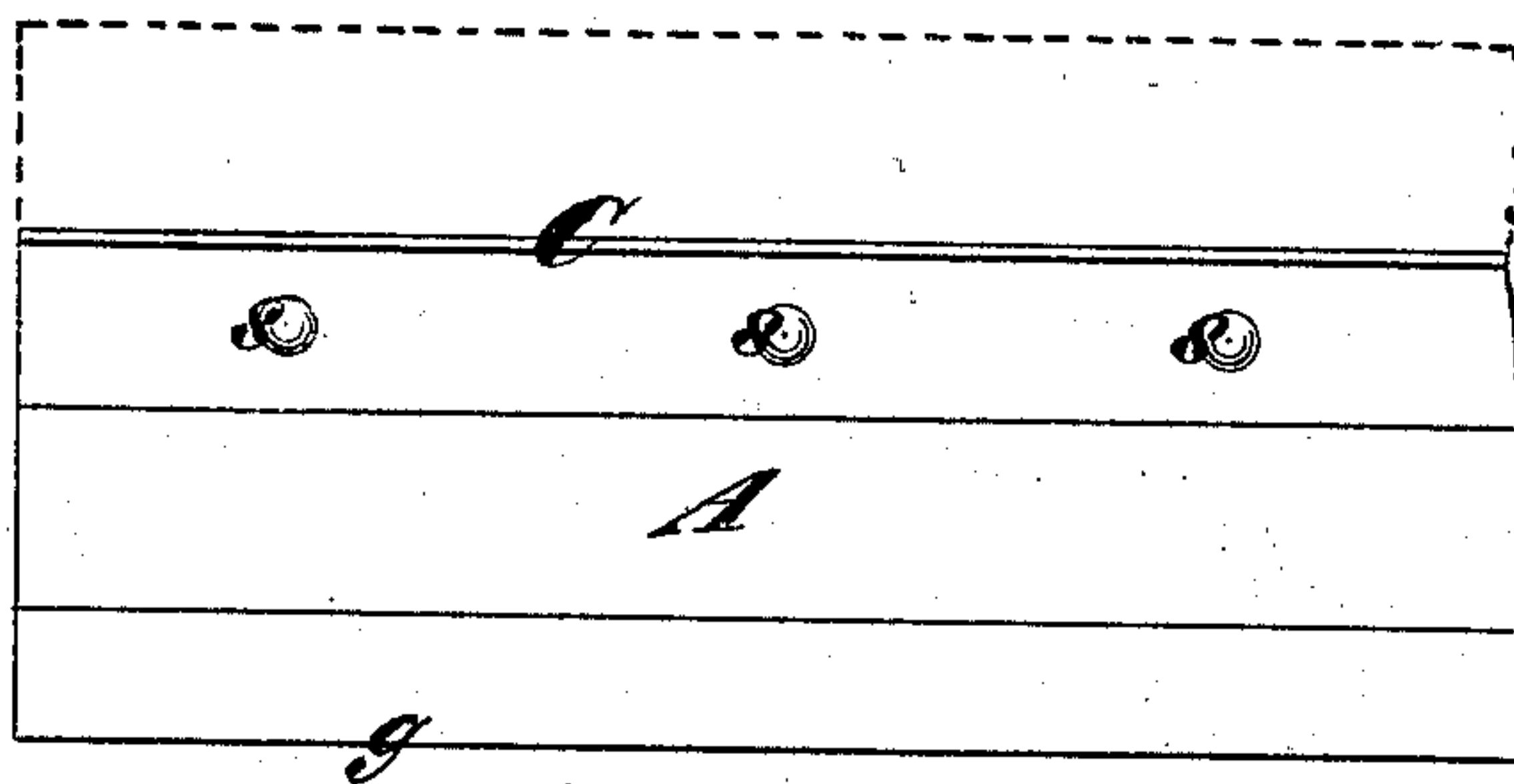


Fig: 1



Witnesses:
Michael Ryan
Fred Hayes

George Hayes
by his Attorneys
Brown & Allen

UNITED STATES PATENT OFFICE.

GEORGE HAYES, OF NEW YORK, N. Y.

IMPROVEMENT IN SKYLIGHTS.

Specification forming part of Letters Patent No. **143,151**, dated September 23, 1873; application filed July 14, 1873.

CASE E.

To all whom it may concern:

Be it known that I, GEORGE HAYES, of the city, county, and State of New York, have invented Improvements in Skylights, Conservatories, and other glazed structures, of which the following is a specification:

This invention consists, in combination with a bar having a ridge on its top, of a cap-plate secured to one side of the same and constructed to retain the panes of glass on the bar, such lateral attachment of the cap-plate, which is preferably made of a piece of pliable metal double along the middle and folded over the edges of the panes of glass, forming a ready and stable connection of the cap-plate with the ridge of the bar.

In the accompanying drawing, Figure 1 is a side view of the bar with cap-plate attached, and Fig. 2 is a transverse section of the same.

Similar letters of reference indicate corresponding parts in both figures.

The bar A, as represented, consists of a single strip of sheet metal, doubled or folded over at the middle, so that its two sides extend parallel with each other to form a ridge, *r*, along the top of the bar. From this ridge the two sides diverge laterally to constitute

shoulders *a a*, and from the extremity of these they extend downward again, as shown at *b b*. Thence they extend outward again and their edges are bent upward, so that gutters *g g* are formed at the sides of the bar. The general shape of the bar thus formed is arched. The cap-plate C consists of a strip or plate of pliable metal folded along the middle, and folded outward in opposite directions to lap over the edges of the panes of glass which are supported on the shoulders of the bar. This plate is secured with its folded or doubled portion against the correspondingly folded portion or ridge of the bar by means of rivets *s s*. This bar, with laterally attached cap-plates, is very light and cheap, and moreover possesses great strength combined with simplicity.

What I claim as my invention is—

The combination, with the ridge *r*, of the bar of the cap-plate C secured to one side of the same, substantially as set forth.

GEORGE HAYES.

Witnesses:

MICHAEL RYAN,
FRED. HAYNES.