

H. & G. ZIELECKE.

Manufacture of Window-Sash from Sheet Metal.

No. 133,740.

Patented Dec. 10, 1872.

Fig. I.

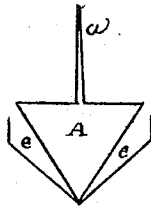
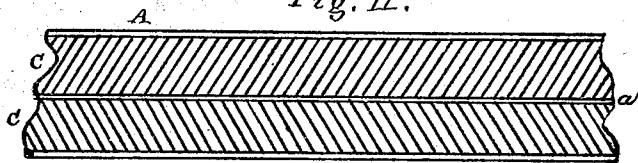


Fig. II.



Witnesses
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By their attorney
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UNITED STATES PATENT OFFICE.

HERMANN ZIELECKE AND GUSTAV ZIELECKE, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN THE MANUFACTURE OF WINDOW-SASH FROM SHEET METAL.

Specification forming part of Letters Patent No. **133,740**, dated December 10, 1872.

To all whom it may concern:

Be it known that we, HERMANN ZIELECKE and GUSTAV ZIELECKE, both of the city of Brooklyn, in the county of Kings and State of New York, have invented new and useful Improvements in Making Window-Sash from Sheet Metal; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and the letters of reference marked thereon.

Our invention has for its object to provide an improved sash for sky-light roofs, for hot-houses and photograph-galleries, and all places where light is needed through the roof, to prevent leakage around the edges of the glass where it rests upon the sash. It is well known that the putty used to secure the glass in its position in the sash when it is exposed to the weather soon becomes cracked or season-checked, so that it is found very difficult to prevent its leaking during rain-storms.

By our invention all this difficulty is completely avoided, which consists in taking a strip of zinc of sufficient length for the sash, and by means of suitable dies and formers the metal is crimped in such a manner as to form the rabbet or seat for the glass, while from the same piece of metal two separate troughs or conductors are formed immediately underneath the edges of the glass, so that if any leak occurs the water is caught by the said troughs and conducted outside the window.

To enable others skilled in the art to make

and use our invention; we will proceed to describe its construction and operation.

Figure I represents a transverse section of a bar forming a portion of the sash, and showing the water-conductor. Fig. II represents a longitudinal section of Fig. I.

A represents the main portion of one of the bars that forms the sash for roofs and sky-lights, where there are no cross-bars used in the construction of the sash. At *a* is shown a strip of metal that separates the panes of glass, and *c c* show the seat upon which the panes of glass rest. *e e* show the conductors for what water that leaks around the edge of the glass.

It will be seen that any sized window may be made by a succession of these bars, all of which may be secured at each end by means of a cross-bar or otherwise, as may be desired.

Having thus described our invention, what we claim, and desire to secure by Letters Patent of the United States, is—

Making the bars for window-sash of one piece of suitable metal, so as to form a water-conductor underneath the edges of the glass, substantially as and for the purposes herein shown and described.

HERMANN ZIELECKE.
GUSTAV ZIELECKE.

Witnesses:

C. ROGERS,
ISAAC COLEMAN.