

(No Model.)

H. A. GROTHOLTMAN.
SASH LIFT.

No. 390,666.

Patented Oct. 9, 1888.

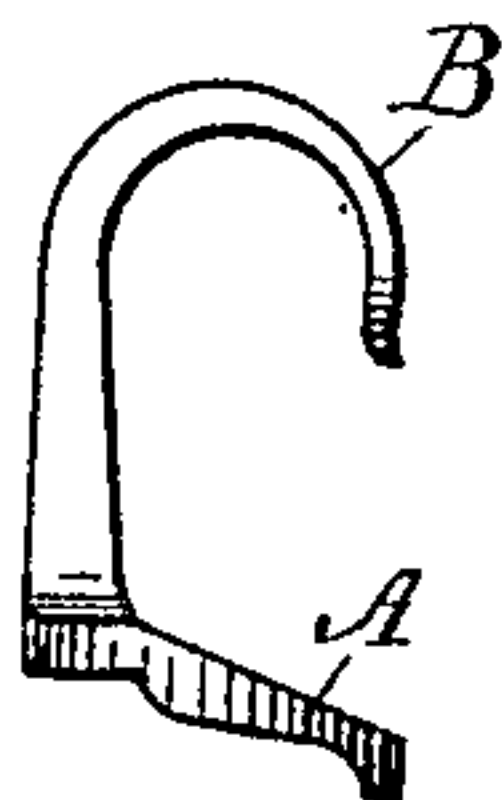


Fig. 3.

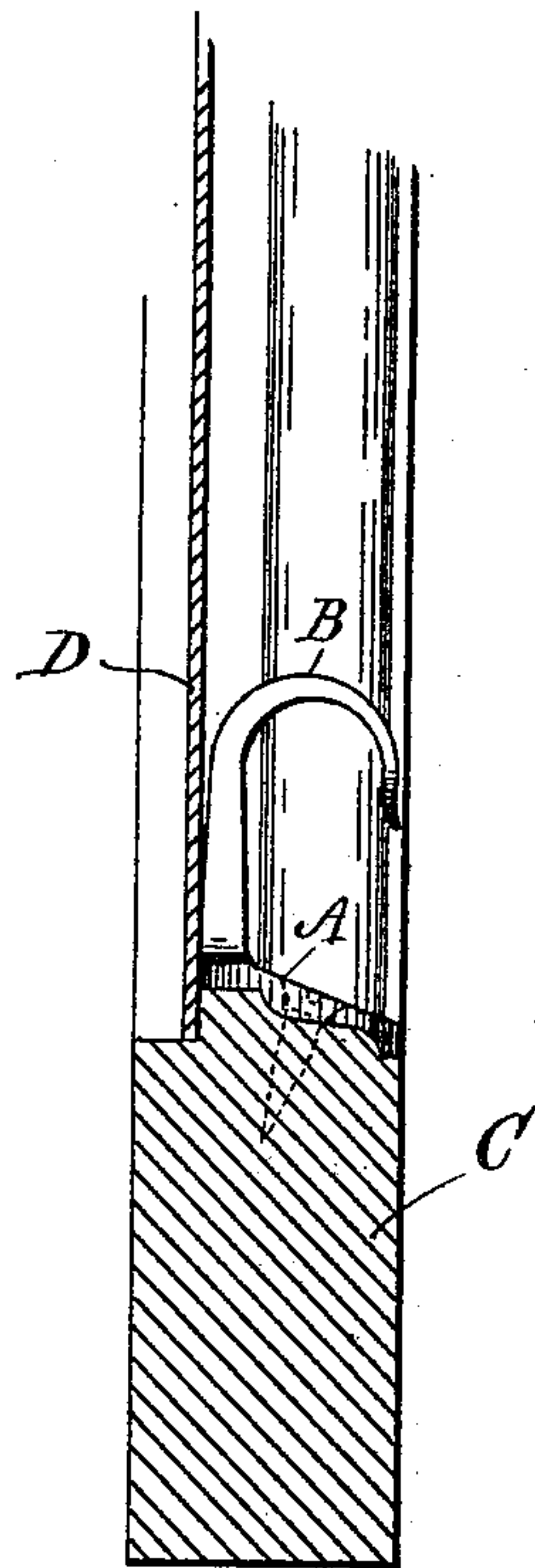


Fig. 2.

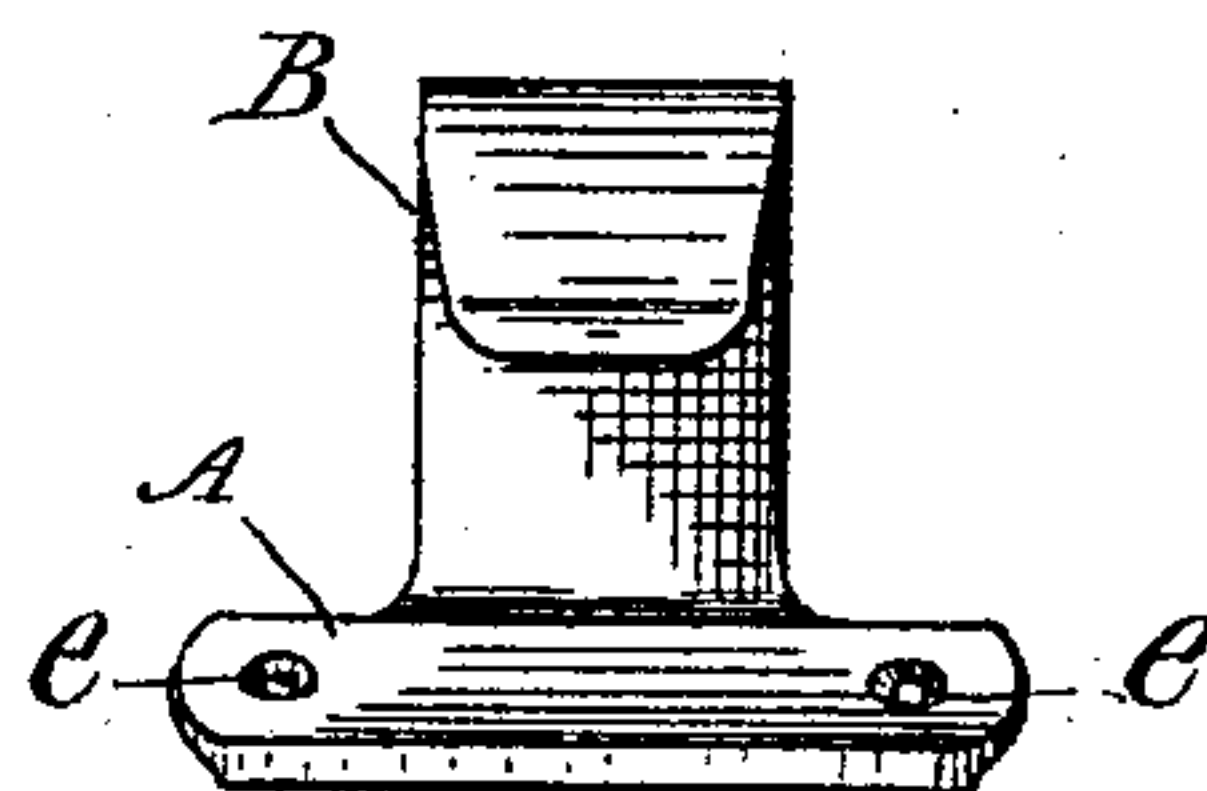


Fig. 1.

Witnesses:
V. M. Hood,
A. M. Hood.

Inventor:
Henry A. Grotholtman
By *H. P. Hood,*
Attorney

UNITED STATES PATENT OFFICE.

HENRY A. GROTHOLTMAN, OF FORT WAYNE, INDIANA.

SASH-LIFT.

SPECIFICATION forming part of Letters Patent No. 390,666, dated October 9, 1888.

Application filed July 9, 1888. Serial No. 279,392. (No model.)

To all whom it may concern:

Be it known that I, HENRY A. GROTHOLTMAN, a citizen of the United States, residing at Fort Wayne, in the county of Allen and State of Indiana, have invented a new and useful Improvement in Sash-Lifts, of which the following is a specification.

My invention relates to an improved attachment to be secured to a window-sash for the purpose of lifting it.

The object of my improvement is to so construct an attachment of the class mentioned that it may be secured to the sash in such a manner that the whole device will be within the plane of the sash, so as to be out of the way of a fly-screen frame arranged to slide next to the inner side of the sash. This I accomplish by means of a base-plate having its under side formed to fit the inner edge of the sash next the glass and adapted to be secured thereto by screws and a hook formed integral with the base and having its outline formed to fall within the lines of the base, so that no part of the attachment, when secured to the sash, will project beyond the inner face thereof.

The accompanying drawings illustrate my invention.

Figure 1 is a front elevation of the lifting attachment. Fig. 2 represents a vertical section of a sash having the lifting attachment in position. Fig. 3 is a side elevation of the same.

A is the base-plate.

B is the hook to receive the finger of the operator when raising the sash.

C is the lower rail of the sash, and D the glass.

The base-plate is perforated, as at *e e*, and is secured to the upper inner edge of the lower rail of the sash by wood-screws passing through said perforations.

It will be observed that the base of plate A is adapted by the conformation of its under side to fit the molding of the upper edge of the lower rail of the sash without any cutting of the sash, and that the relation of the hook B to the base-plate is such that no part of the lifter projects beyond the inner plane of the sash.

I am aware that a sash-lifter consisting of a base-plate adapted to be secured to the inner face of the sash-rail and a projecting hook has before been used, and I do not claim such a device; but such a device is not adapted to permit another sliding frame, as a fly-screen, to be mounted near the inner surface of the sash—a difficulty which is overcome by my invention.

I claim as my invention—

The sash-lifter consisting of a base-plate having its under side constructed to fit the edge of a window-sash, and a hook cast integral with said base-plate and arranged at an angle thereto, substantially as shown and described.

HENRY A. GROTHOLTMAN.

Witnesses:

S. D. MILLER,
JOHN DREIHELLIUS.