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John F. Smith's—

No. 119,479. Improved Blind Fastener
and
Opener—

Patented Oct. 3, 1871.

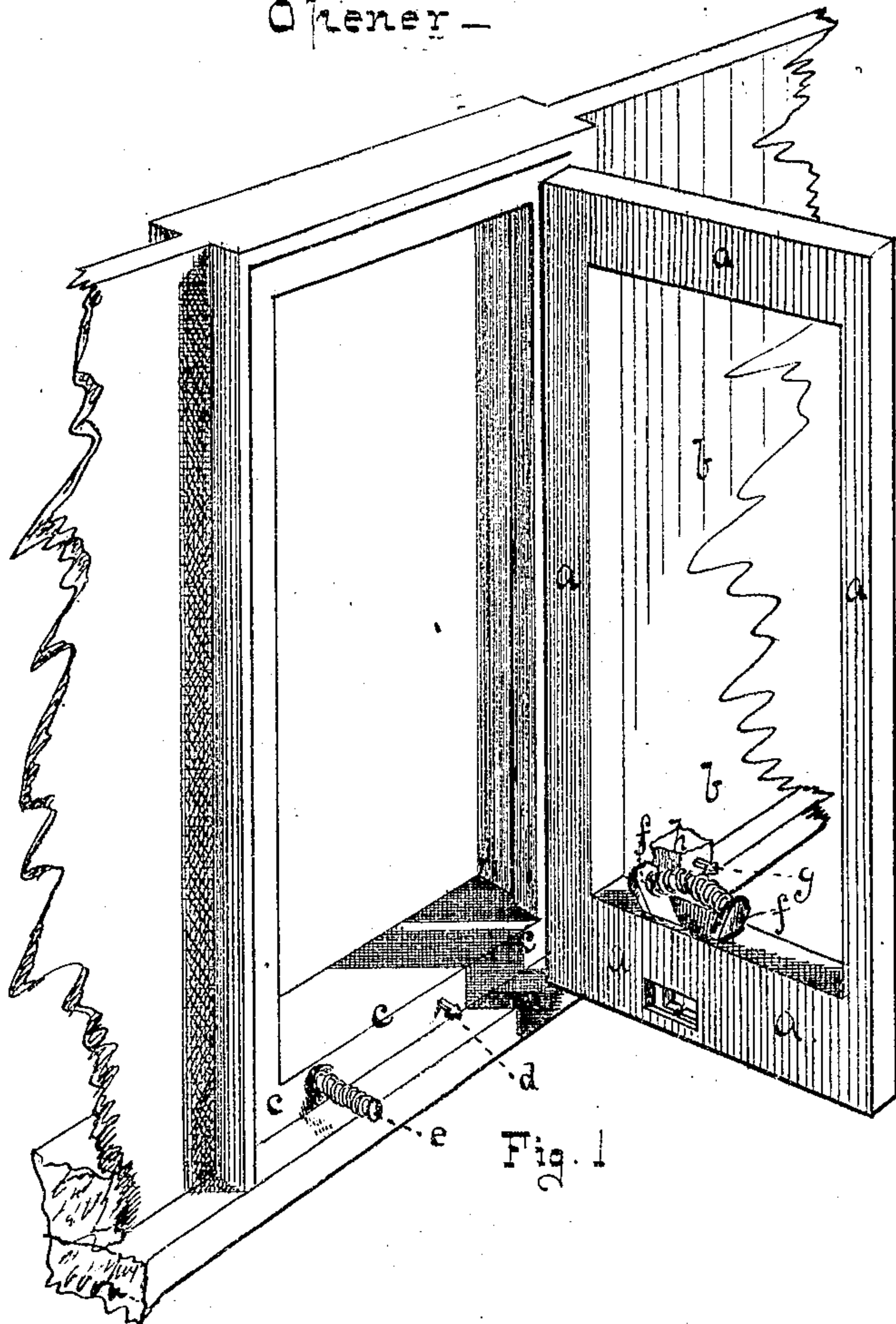


Fig. 1

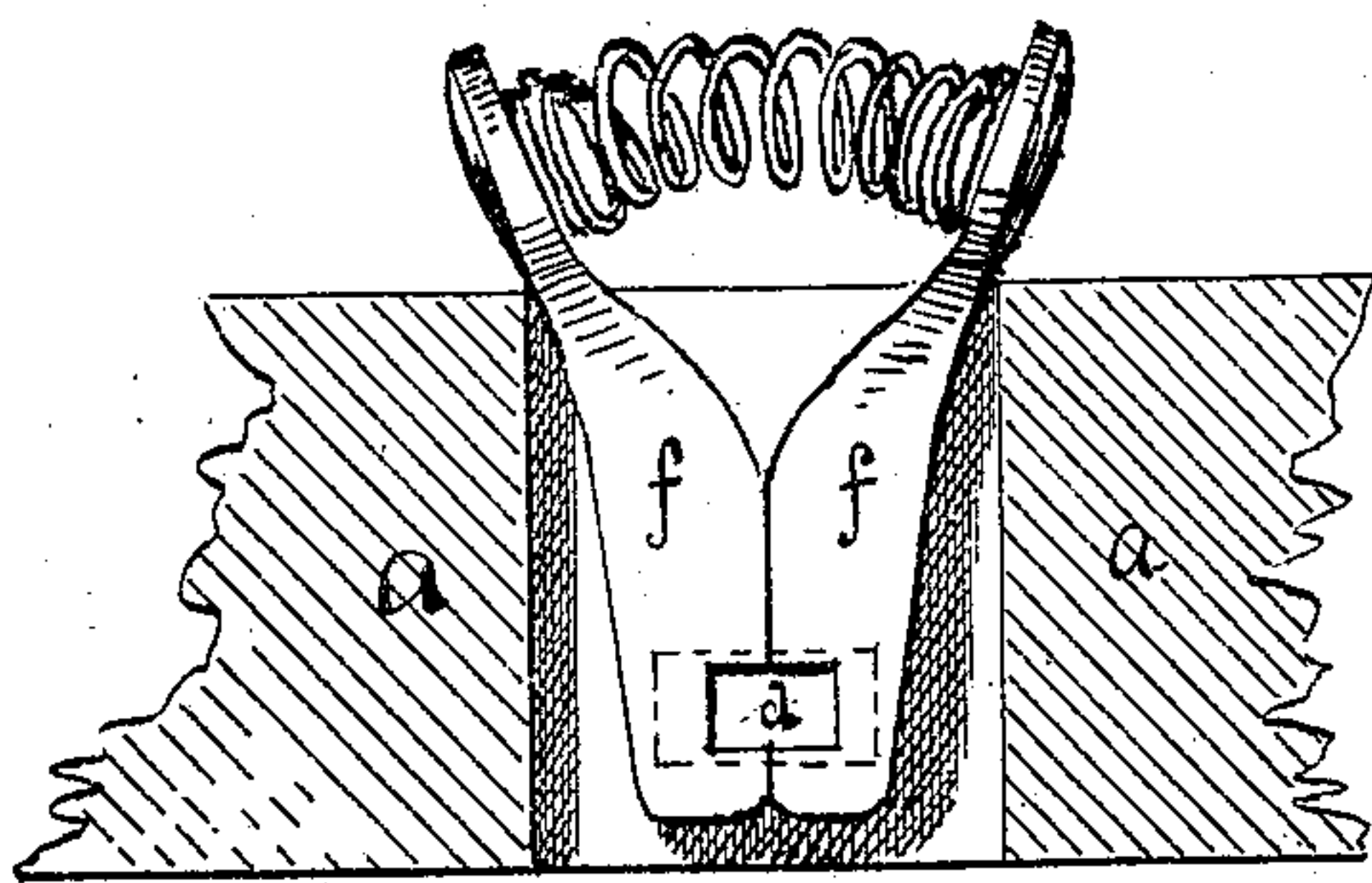


Fig. 2

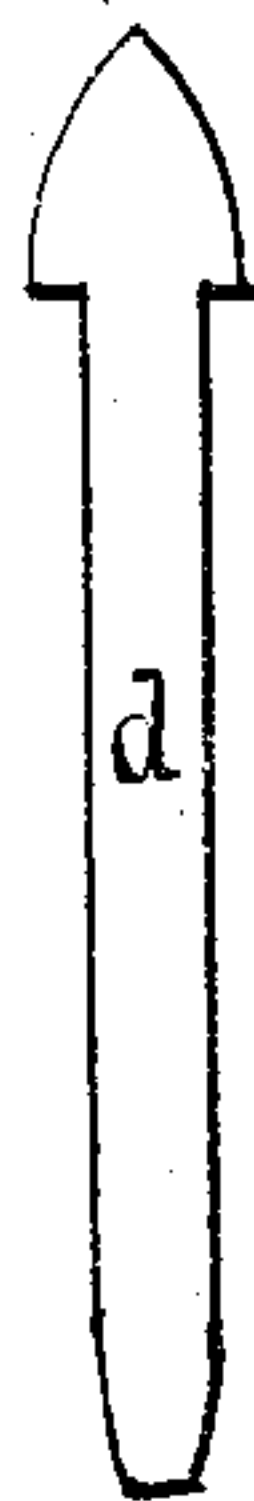


Fig. 3

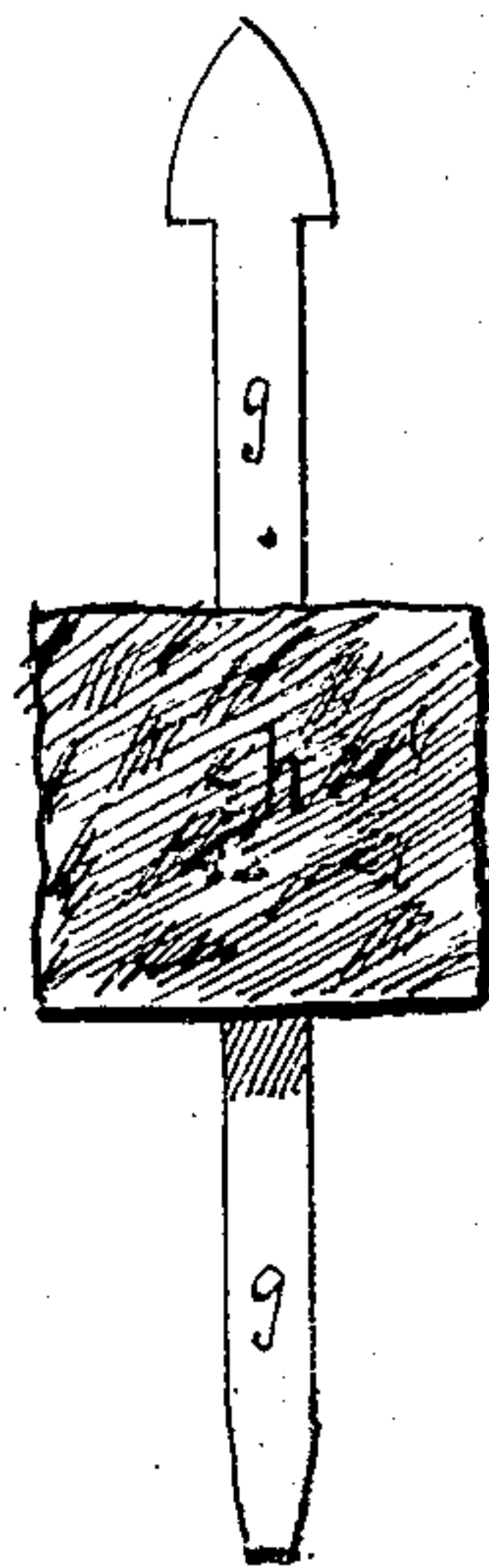


Fig. 4

Witnesses—

Wm. H. Stephens
N. P. Kemp

John F. Smith Inventor.

by *Leroy A. Williams & Co.*
Attys.

UNITED STATES PATENT OFFICE.

JOHN F. SMITH, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN SHUTTER-FASTENERS.

[Specification forming part of Letters Patent No. 119,479, dated October 3, 1871; antedated September 16, 1871.

To all whom it may concern:

Be it known that I, JOHN F. SMITH, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and Improved Blind-Fastener and Opener, of which the following, when taken in connection with the accompanying drawing, is a full and exact specification.

My invention consists of an arrangement, fully described below, in which the blind is kept securely closed by means of a staple which catches in a hook placed in the blind. Upon releasing this staple a concealed spring sends the blind quickly back against the house. There are various advantages in this invention, all of which are fully set forth below.

In the accompanying drawing, Figure 1 is a sketch of my invention, showing the blind in the act of flying back. Fig. 2 is a section of the lower part of the blind, showing the position of the staple when confined in the hook. Fig. 3 represents the staple which holds the blind when shut. Fig. 4 represents the staple which secures the blind when open.

a is the blind. *b* is the house in which the window is placed. *c* is the frame against which the blind opens. *d* is the staple which holds the blind when closed. *e* is a spring which throws the blind open. *f* is the hook. *g* is the staple which holds the blind when open. *h* is a piece of hard rubber which serves to ease the blow of the blind upon the house, but which is not a part of my invention.

In practical operation my invention works as

follows: Taking the blind as it is found in Fig. 1, in order to close it I reach out my hand and pull it forcibly toward the window until the hook *f* snaps over the staple *d*. To open the blind I simply press the hook *f*, closing the spring, when, the staple *d* releasing the hook *f* and the spring *e* acting upon the blind *a*, the blind flies quickly back and snaps the hook *f* over the staple *g*, confining the blind in place at the side of the house.

The following are some of the advantages my invention affords which are not common to blinds manufactured in the ordinary manner: No screws are required in attaching the fastener and opener. The blind cannot be opened from the outside, as it fits closely to the sill. It is self-opening. The hand is not obliged to extend outside the window, and the window itself need not be opened more than two or three inches. This is especially advantageous in case of stormy weather. All noise and rattling are avoided when the blind is shut by the pressure of the spring *e*. The exertion required in opening the blind is so slight that a child can operate it without any difficulty.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

The combination and arrangement of the spring *c*, staple *d*, and hooks *f*, as and for the purposes hereinbefore described.

JOHN F. SMITH.

Witnesses:

HENRY W. WILLIAMS,
WILLIAM H. MUNROE.