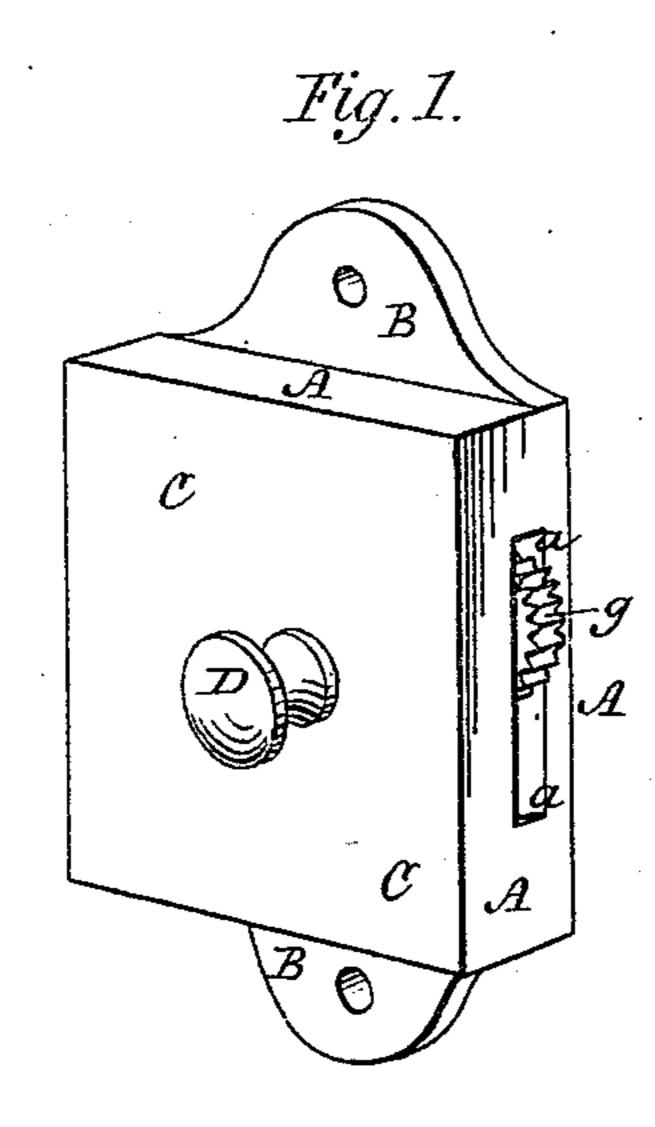
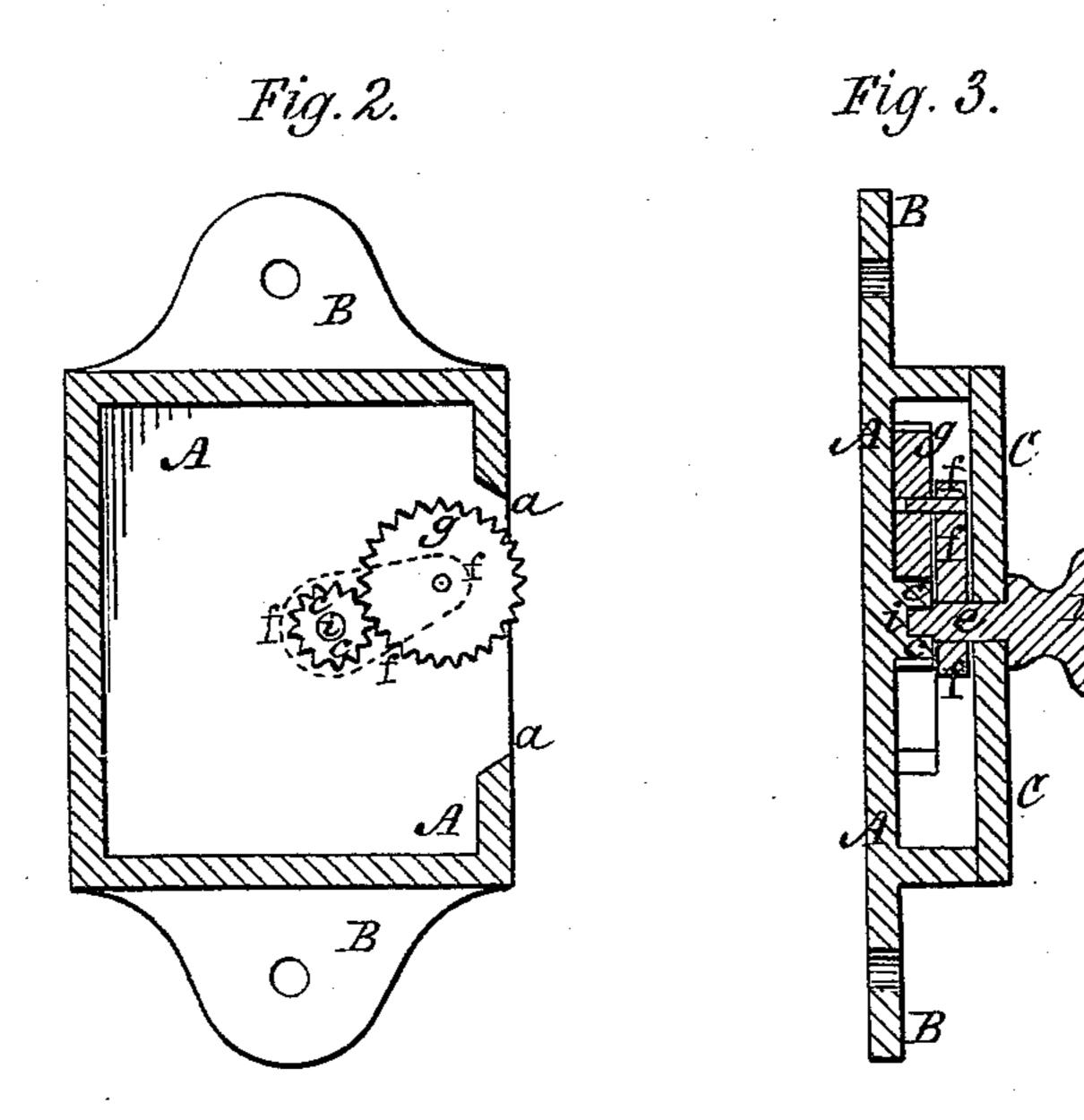
G. B. SMITH. Sash-Holders.

No.148,857.

Patented March 24, 1874.





Witnesses.
Sp. Cowl
Edmund Masson

Inventor. George 18. Smith. By atty. A.B. Stoughton.

UNITED STATES PATENT OFFICE.

GEORGE B. SMITH, OF DUNMORE, PENNSYLVANIA.

IMPROVEMENT IN SASH-HOLDERS.

Specification forming part of Letters Patent No. 148,857, dated March 24, 1874; application filed February 16, 1874.

To all whom it may concern:

Be it known that I, GEORGE B. SMITH, of Dunmore, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in Sash-Fasteners; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings making a part of this specification, in which—

Figure 1 represents, in perspective, the exterior of the sash-fastener with its lockingwheel slightly projecting from the case. Fig. 2 represents in plan the interior of the case, the cap-plate or cover being removed. Fig. 3 represents a section taken transversely through the sash-fastener.

My invention relates to a sash-fastener wherein there is a fixed pinion, the center of which is the center of motion of a crank that is turned by a knob or handle on the exterior of the case, said crank, at its outer or free end, carrying a cogged wheel, which rolls around the perimeter of the fastened pinion, and which, by projecting slightly at one part or the other of the inclosing-case, locks a sash up or down, as the case may be.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawmgs.

The inclosing-case A may be cast in the usual box form, with lugs B, by which it may be fastened to the window or sash, and with a back-plate or cover, C. One edge or side of the case, as at a, is left open, as seen at Figs. 1 and 2, for a purpose that will be hereafter explained. In the bottom of the box portion of the case A, and fast thereto, there is a spurwheel, c. To the cover C of the case there is attached a knob or handle, D, the shank e of which passes through said cover and through a crank-arm, f, inside of the case, and has a step or bearing in the center of the fixed spurwheel c, as at i. Upon the extreme outer end of the crank-arm f, and upon a pivot-pin or journal thereon, is arranged a cogged wheel,

g, which, when the knob or handle D and the crank-arm f are moved, rolls around but in mesh with the fixed spur-gear c, and the space in the box is such that the wheel g can roll clear around the fixed pinion or spur, so as to project at the upper or at the lower por-

tion of the opening a.

To lock and hold a sash up, the sash is raised to any desired height, and then the wheel g is revolved by the knob D and its crank-arm f until it projects from the slot or opening a, as seen in Figs. 1 and 2, and until it comes against the sash. Any tendency of the sash to come down would also tend to roll the wheel g farther out of the opening a, which it could not do for the sash, against which it already bears, and which it would only hold the tighter.

To lock the sash down, it is first brought to its seat, and then the wheel g, by means of the knob and its crank-arm, is rolled clear around the fast pinion c until said wheel projects from the lower end of the slot or opening a, and is brought against the sash. Any tendency to raise the sash in this position of the wheel gonly crowds it harder against the sash, and it can go no farther, and consequently locks the

sash. The point of contact or pressure on the wheel g will always be radial to the center of the fixed spur-wheel c, and that spur being stationary steadies and guides the holding-wheel g, which revolves or rolls around it circumferentially.

Having thus described my invention, what I claim is—

In combination with the case A, a stationary spur-wheel, c, and a knob or handle, D, and crank-arm, f, carrying a holding gear-wheel, g, which rolls around and in mesh with the fixed spur or pinion c, to project said wheel g against the sash to be locked, as described and represented.

GEORGE B. SMITH.

Witnesses:

ANTHONY HORAN, S. B. BULKLEY.