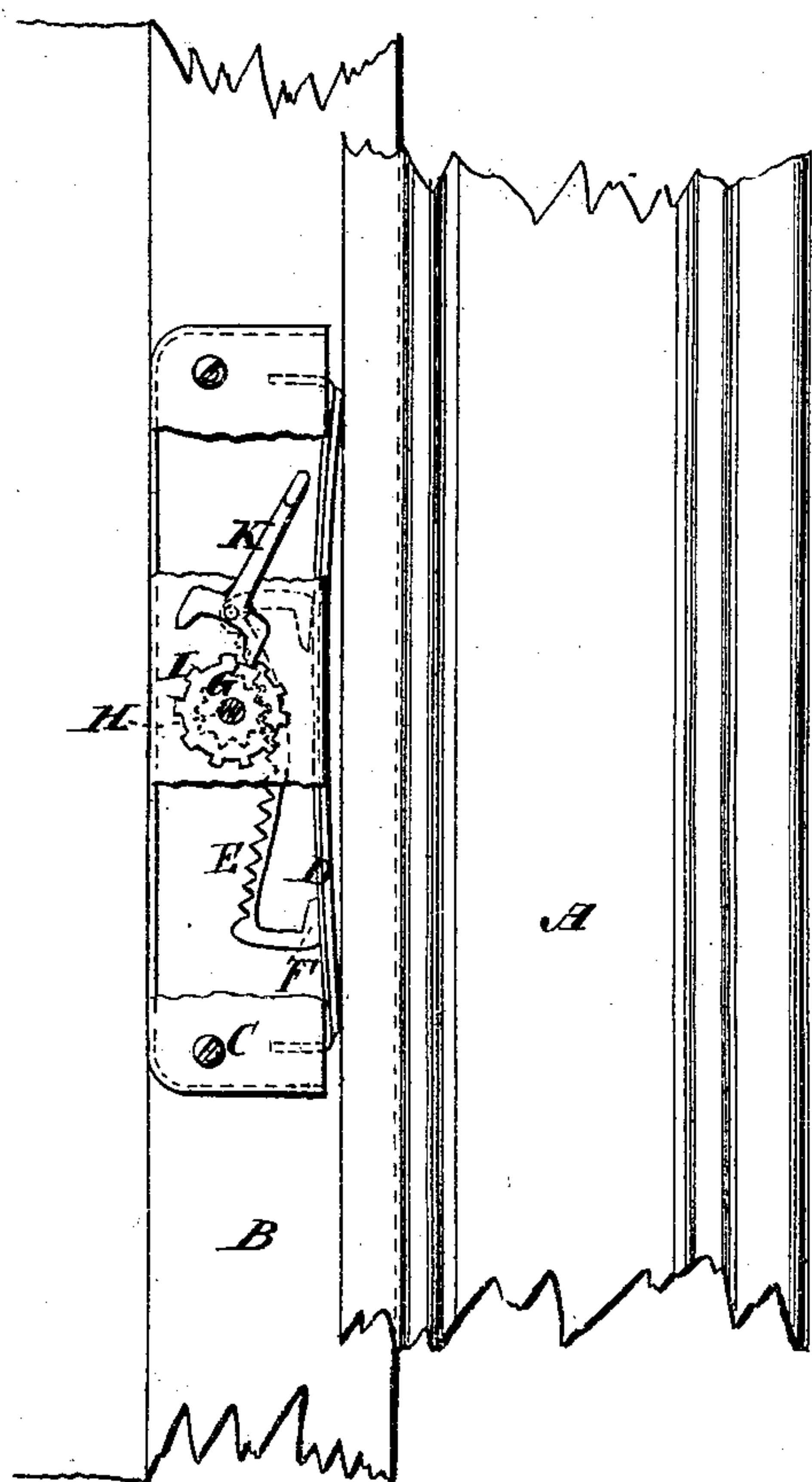


G. W. RICHARDSON.  
Improvement in Sash-Holders.

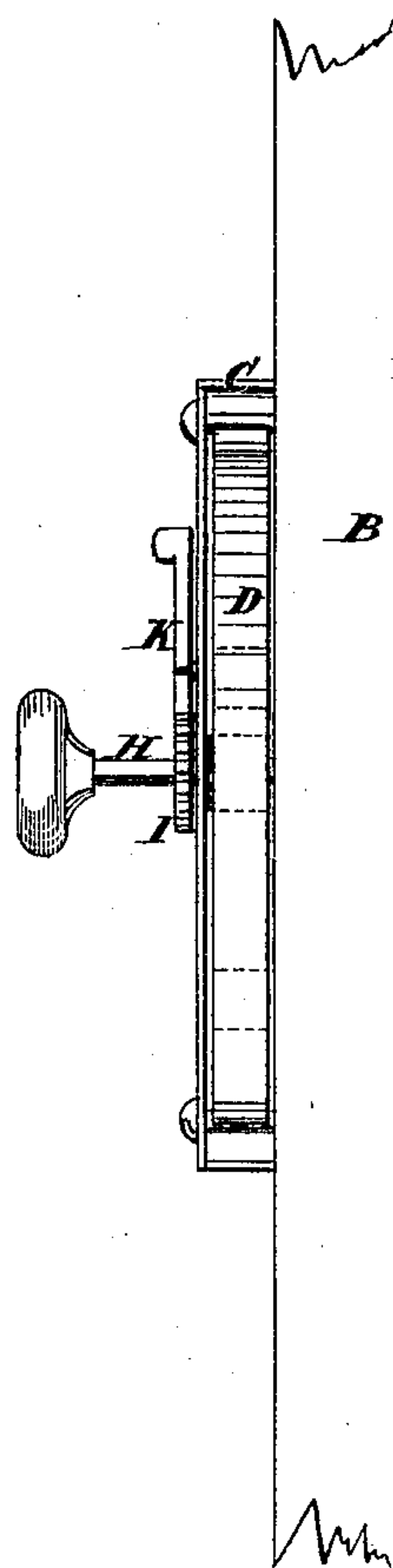
No. 130,868.

Patented Aug. 27, 1872.

*Fig. 1.*



*Fig. 2.*



Witnesses:

*E. Woff*  
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# UNITED STATES PATENT OFFICE.

GEORGE W. RICHARDSON, OF COLUMBUS, KENTUCKY.

## IMPROVEMENT IN SASH-HOLDERS.

Specification forming part of Letters Patent No. 130,868, dated August 27, 1872.

Specification describing a new and Improved Sash-Fastener, invented by GEORGE W. RICHARDSON, of Columbus, in the county of Hickman and State of Kentucky.

My invention consists of a long flat spring in a case next to the sash, with a curved bar behind it, and behind said bar a pinion on a knob-spindle gearing with the said bar so as to raise or lower it by the turning of the said knob-spindle, by which the said bar, which has the ends suitably formed for the purpose, will be caused to wedge at its ends in between the pinion and the spring, and force the latter against the sash; and this spring is faced with roughened India rubber, or it may be other equivalent substance, adapted to hold the sash by friction. The upper end of the said bar holds the sash up and the lower end holds it down, all as hereinafter described.

Figure 1 is partly a side elevation and partly a sectional elevation of part of a window provided with my improved sash-holding apparatus; and Fig. 2 is a side elevation of the sash and the fastening apparatus in a plane at right angles to that of Fig. 1.

Similar letters of reference indicate corresponding parts.

A represents the window-frame; B, the sash-stile; C, the case containing the fastening devices, which consists of the India-rubber-faced spring D, the curved toothed bar E with end pieces F, as shown, and the toothed pinion G gearing with said curved bar, the said pinion being on a knob-spindle, H, projecting out through the case C, by which to turn the said pinion.

It will be seen that by turning the pinion in one direction the upper end of the toothed bar F will be forced down and wedged in between the pinion and the spring, so that the latter will be forced against the sash with such pressure that it will be held up very securely by friction, and by turning the pinion in the other direction the sash will in like manner be secured against being raised.

The knob-spindle has a notched disk, I, and a double pawl, K, is arranged with it to lock the pinion when required, which is not always the case. This notched wheel and the pawl may be arranged outside or inside of the case C, and said case may either be arranged on the front side of the sash or be let into a recess in it, or it may be mounted on the window-frame. A stiff plate will answer well instead of the spring D, but I prefer the latter.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination of the India-rubber-faced spring D, toothed curved bar E F, pinion G, and knob-spindle H, substantially in the manner described.

2. The combination, with the subject-matter of the foregoing claim, of the notched disk I and pawl K, substantially as specified.

GEORGE W. RICHARDSON.

Witnesses:

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