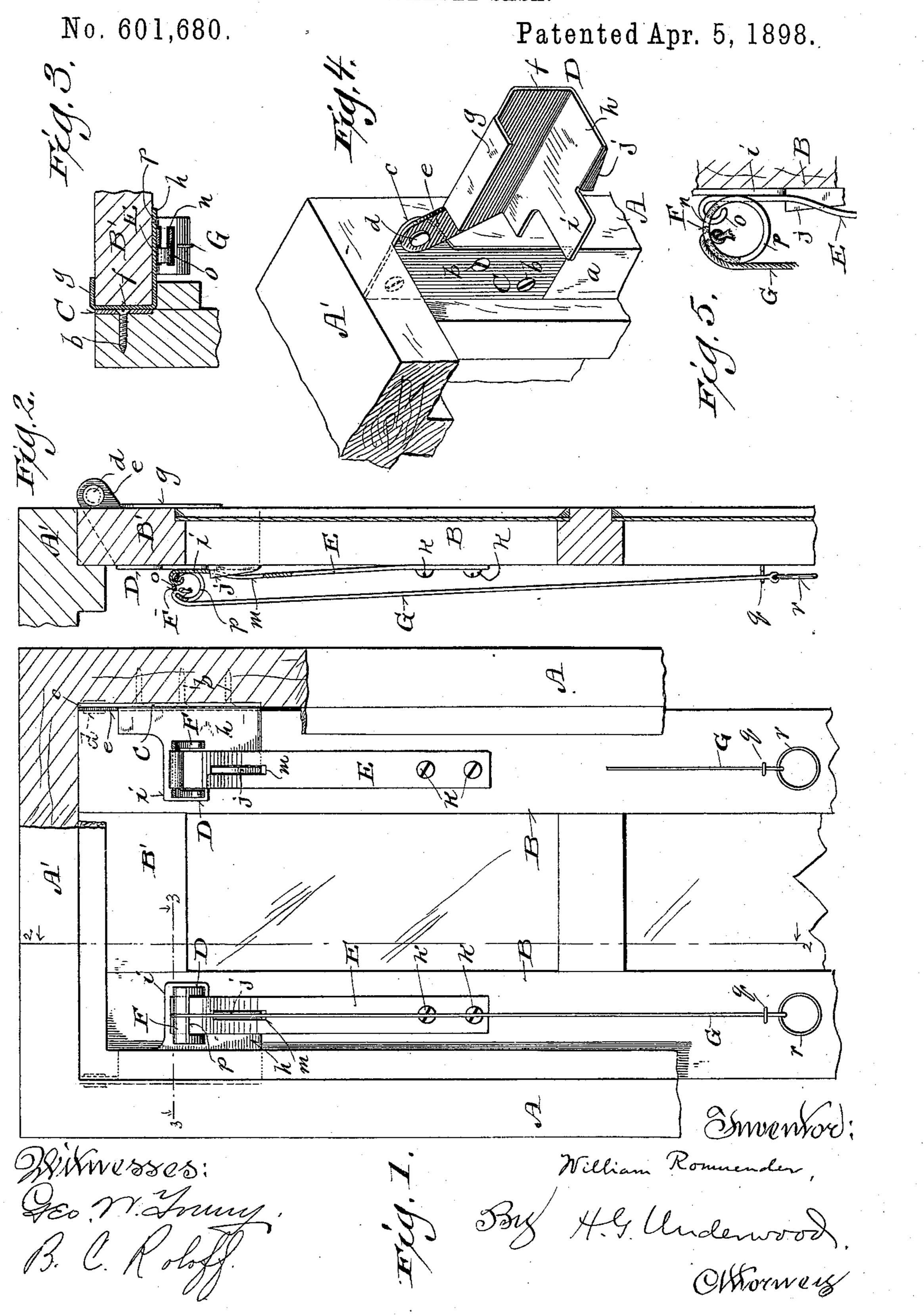
W. ROMUENDER. DETACHABLE SASH.



United States Patent Office.

WILLIAM ROMUENDER, OF MILWAUKEE, WISCONSIN.

DETACHABLE SASH.

SPECIFICATION forming part of Letters Patent No. 601,680, dated April 5, 1898.

Application filed August 23, 1897. Serial No. 649,194. (No model.)

To all whom it may concern:

Beit known that I, WILLIAM ROMUENDER, a citizen of the United States, and a resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Detachable Sashes; and I do hereby declare that the following is a full, clear, and exact description thereof.

for detachably supporting outside or storm windows, shutters, screens, and the like; and it consists in certain peculiarities of construction and combination of parts, as will be fully set forth hereinafter and subsequently claimed.

In the drawings, Figure 1 is an inside view of a window-casing fitted with an outside window embodying my present invention, partly broken away to better illustrate certain details of construction. Fig. 2 is a vertical transverse sectional view taken on the line 2 2 of Fig. 1. Fig. 3 is a detail sectional view on the line 3 3 of Fig. 1. Fig. 4 is a detail perspective view of a hinge, and Fig. 5 is a detail side view of a releasing device, forming portions of my said invention.

Referring to the drawings, A A represent the stiles of a window-casing, and B B the stiles of an outside sash supported from the upper opposing faces a a of said casing and adapted to close against the same.

A' represents the top of the window-casing, and B' the top of the said outside such

and B' the top of the said outside sash. In Fig. 4 I show one pair of the supportinghinges, each pair being alike except that they are "rights" and "lefts," as shown at D D in Fig. 1. C, Fig. 4, represents the stationary plate of one of my said hinges, secured, as by 40 screws b b, to the face a of one of the windowcasing stiles A and having an outward-projecting upper corner c, to which is pivotally secured, as shown at d, the upper projecting corner e of the movable part D of said hinge. 45 The said part D is, further, formed with a back plate f, integral with and in the same plane as the described corner e, and with integral right-angularly-bent flanges g h, the upper part of the flange h having an exten-50 sion i, beneath which (when the hinge part D is closed with the back plate f against the stationary plate C, as in Fig. 1) the lower part

of the said flange h is itself bent at a right angle and tapered downwardly, forming the latch j. These hinges CD CD are wholly se- 55 cured to the window-casing stiles without attachment to the detachable outside sashes at all, and the latter are raised up to place with the top B' of said outside sash inserted between the flanges g h of the said hinges. In 60 order to retain said outside sash B B' in this position, I secure slotted spring-metal catches E E to the inner surface of the upper parts of the sash-stiles B B, as by screws k k, passed through the lower ends of the catches 65 E E into said stiles, and when the said top B' of the outside sash is slipped up between the flanges g h of the movable hinge parts D D the latches j j on said hinge parts are received within the slots m m in said catches E E, the 70 free upper ends of said catches E E resting against the extensions i of the flanges h of the hinge parts D, as shown best in Figs. 1 and 2. As thus constructed my devices are complete in themselves; but inasmuch as the tops of 75 the catches E E are near the top of the window-casing, and hence too high to be conveniently reached by the hand of a person standing on the floor, I have added a releasing device, (shown in detail in Fig. 5,) the same 80 consisting of a hollow cylinder F, having a narrow peripheral transverse slot n to receive the rolled-over upper end o of the catch E and a wider peripheral slot p to receive the said catch E in the movement of the said cylinder 85 hereinafter described.

G is a cord, wire, or chain secured to the cylinder F adjacent to the narrow slot n, said cord or analogous device passing down alongside the inside face of the window-casing stile 90 A, being preferably confined by a ring or staple q and terminating in a ring or other suitable pull r. I have described only one of these releasing devices, but it will be understood that there are a pair of them, one for 95 each catch, as shown in Fig. 1.

In practice when it is desired to release the sash B B' the cords G G are given a straight pull, which causes a partial revolution of the cylinders F F, whose ends beyond the decorate scribed slots n p travel on the flanges h and extensions i of the hinge parts D D, thereby drawing the upper ends of the catches E E away from said hinge-flanges until the catches

are drawn away free from the latches j.j, when the said outside sash will be released and drop down by gravity away from its former position between the flanges g h, so as to be 5 capable of being readily pulled out from the hinges and just as readily replaced therein by insertion and an upward push, as in doing this the catches E E will slide up over the inclined latches j j until the latter enter the de-

ro scribed slots m m in said catches.

By reason of the described construction of hinges the detachable sash may be swung out from or drawn close to the window-casing, as desired, or readily removed therefrom, and 15 hence this is a great advantage when such detachable sash is that of a storm-window, blind-awning, or insect-screen, and one of these devices may be readily substituted for another whose sash is provided with the de-20 scribed catches without requiring the services of a skilled mechanic at any time.

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

Patent, is—

25 1. The combination with a window-casing, of movable socket-hinges attached thereto, said movable sockets having exterior latches projecting therefrom, a detachable sash adapted to fit within said hinge-sockets, and slotted 30 catches secured to said sash for engagement with said latches, substantially as set forth.

2. The combination with a window-casing, of movable socket-hinges attached thereto,

and provided with exterior projecting latches, a detachable sash adapted to fit within said 35 hinge-sockets, slotted catches secured to said sash for engagement with said latches, and devices for releasing said catches from said engagement, substantially as set forth.

3. The combination with a window-casing, 40 having projecting latches, of a detachable sash and slotted spring-catches secured at their lower ends to said sash for engagement with said latches, slotted cylinders loosely connected to the free top ends of said catches, 45 and cords, wires or chains secured to said cylinders adjacent to their points of connection with said catches, substantially as set forth.

4. The combination with a window-casing. of stationary hinge-plates secured thereto, 50 movable hinge-plates pivotally secured to said stationary plates and having right-angled flanges projecting therefrom forming open sockets, and latches projecting from the exterior of said sockets, a detachable sash adapted 55 to fit within said sockets, and slotted springcatches secured to said sash for engagement with said latches, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in 66 the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

WILLIAM ROMUENDER.

 ${f Witnesses:}$

N. E. OLIPHANT, B. C. ROLOFF.