Oct. 21, 1924. 1,512,792

A. NELSON

PLATFORM ATTACHMENT FOR WINDOWS

Filed April 4, 1923 2 Sheets-Sheet 1

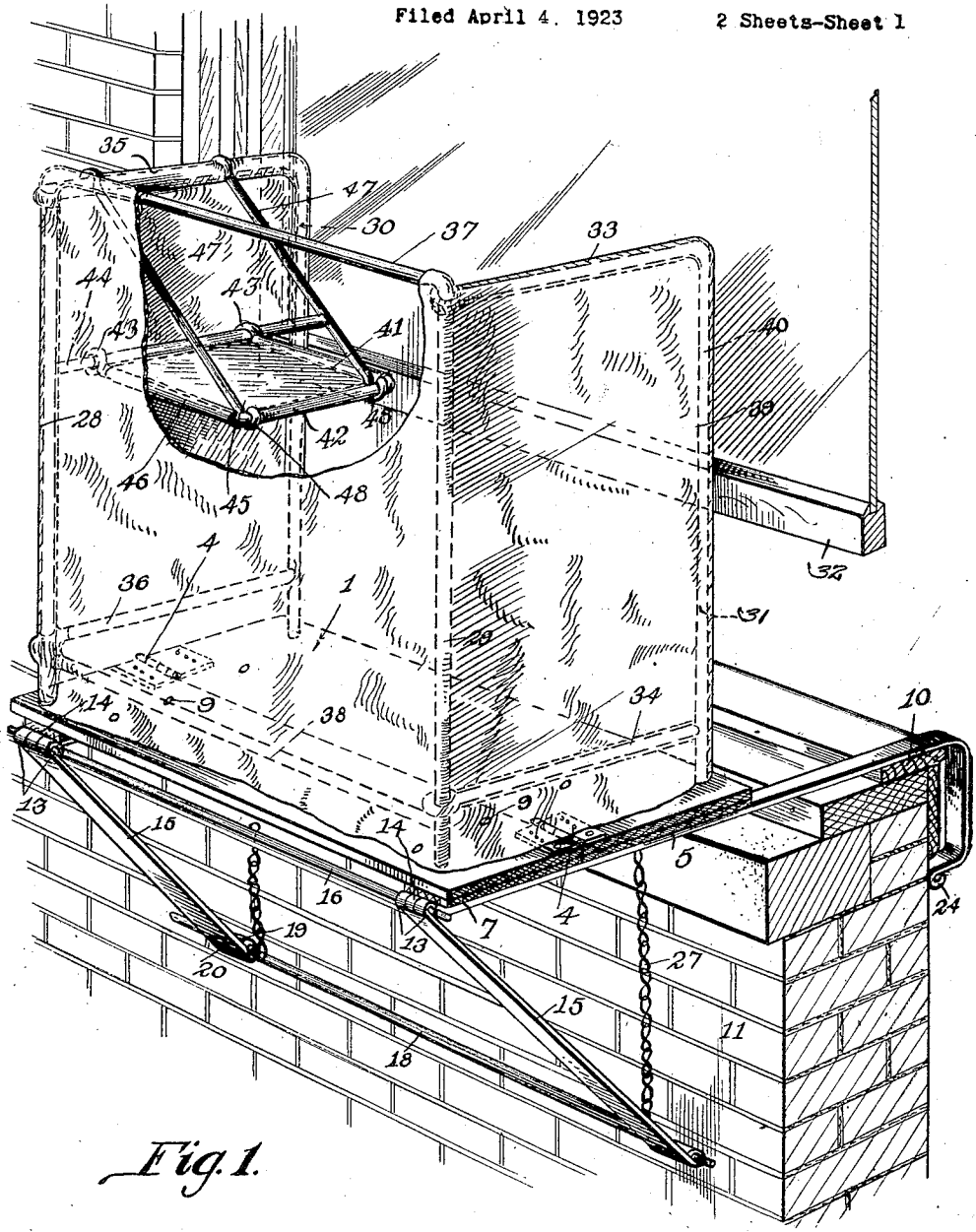

Fig. 1.

WITNESSES

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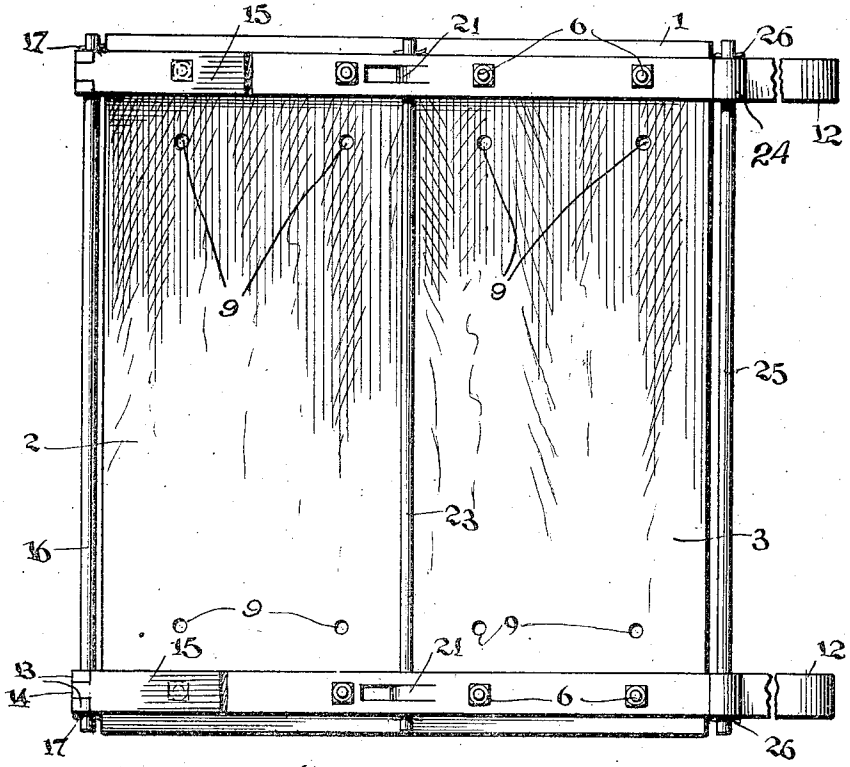

Fig. 2.

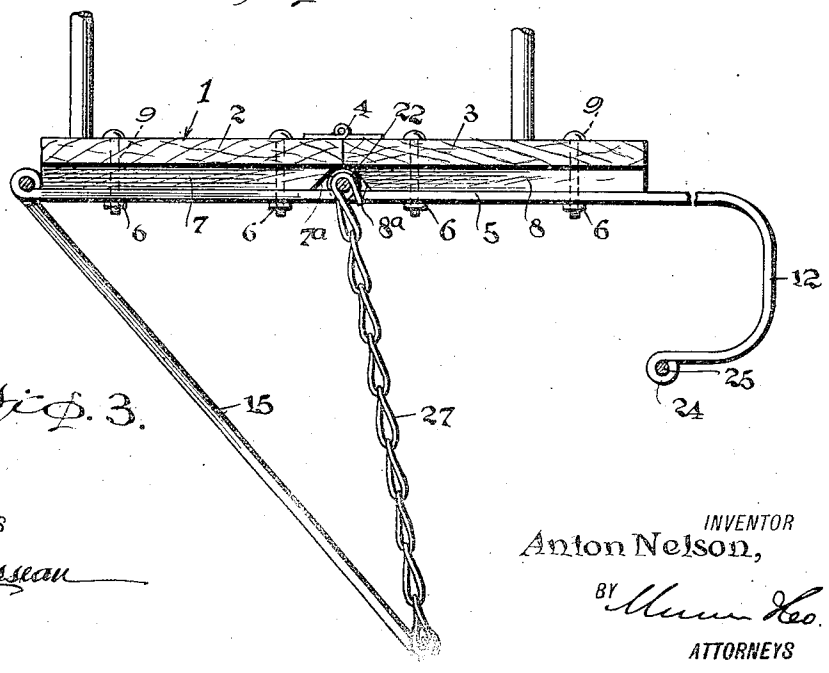

Fig. 3.

WITNESSES

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UNITED STATES PATENT OFFICE.

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PLATFORM ATTACHMENT FOR WINDOWS.

Application filed April 4, 1923. Serial No. 629,864.

To all whom it may concern:

Be it known that I, ANTON NELSON, a citizen of the United States, and resident of Sauk Center, in the county of Stearns and State of Minnesota, have invented certain new and useful Improvements in Platform Attachments for Windows, of which the following is a specification.

My invention relates to improvements in platform attachments for windows, and it consists in the combinations, constructions and arrangements herein described and claimed.

An object of the invention is to provide a device of simplified construction which is adapted to be detachably secured to the frame of a window in a building and which affords facilities for supporting a person in a relatively elevated position exteriorly of the building for the purpose of cleaning or repairing the window or for any other purpose.

A further object of the invention is to provide an attachment of the character described which is adapted to be adjusted for application to windows of different widths within a considerable range of sizes.

A still further object of the invention is to provide an attachment of the character described which can be conveniently and easily attached to or detached from a window without the use of any special tools, and which is adapted to be folded or collapsed into small compass for the purpose of transportation or storage.

A still further object of the invention is to provide an attachment of the character described which is relatively safe when in use and embodies means tending to prevent any person supported thereon from accidental displacement therefrom.

Other objects and advantages will be apparent from the following description, considered in conjunction with the accompanying drawings, in which—

Figure 1 is a perspective view showing a practical embodiment of the invention in applied position on the frame of a window, the lower sash of the window and portions of the supporting structure therefor being shown in vertical section.

Figure 2 is a bottom plan view of a fragmentary portion of the device in detached position, and

Figure 3 is a side elevation of a fragmentary portion of the device detached.

In carrying out my invention, I provide a substantially flat base or platform designated generally 1 which may comprise a pair of similar transverse sections 2 and 3 respectively arranged in juxtaposed adjacent relation and hingedly connected together at their adjacent edges, as indicated at 4. The sections 2 and 3 which may be boards are normally held in extended or outwardly swung position in respect to each other or in other words in such position as to lie in the same plane by a pair of bars 5 which extend longitudinally of the platform at predetermined distances from the side edges of the platform or in other words from the ends of the sections 2 and 3 and which are secured to the respective sections 2 and 3 by bolts and nuts 6. The bars 5 are spaced from the under sides of the sections 2 and 3 by spacing and stiffening blocks 7 and 8 respectively through which the bolts extend, the strips 7 and 8 at corresponding ends of the sections 2 and 3 being disposed in alignment with each other with the adjacent ends thereof spaced slightly apart and beveled oppositely as indicated at 7^a and 8^a respectively so that the adjacent ends of aligned strips 7 and 8 diverge toward their lower sides.

The sections 2 and 3 of the platform have spaced apart series of bolt receiving openings formed therein to extend longitudinally thereof as indicated at 9 and the respective aforesaid bolts may be projected through the bolt receiving openings 9 of the several series selectively so as to vary the spacing of the bars 5 from the sides of the platform or in other words from the ends of the sections 2 and 3, as desired for a purpose to be hereinafter described.

It will be apparent that the bars 5 and strips 7 and 8 may be detached from the sections 2 and 3 and that the latter may then be folded to lie flatwise one upon the other and to thus occupy but relatively small space, assuming of course that the hereinafter described superstructure on the platform has first been removed.

The bars 5 constitute the horizontal members of brackets for engaging with the sills 10 of window frames and with the outer faces of a vertical wall 11 for the purpose of attaching the platform to a window sill and for supporting the platform in a position in which partly disposed upon the window sill, and extending beyond the outer

edge of the latter, the platform being stayed at its outer end to the outer face of the wall 11. The bars 5 therefore extend at their inner ends considerably beyond the inner end of the platform and the extending inner end portions of the bars are fashioned to provide substantially U-shaped hook portions which are adapted to be hooked over the inwardly extending portion of a window sill.

Each of the bars 5 is formed at its outer end to provide a pair of spaced apart axially aligned sleeve portions 13 adapted to receive therebetween a sleeve portion 14 formed at one end of each of a pair of bars 15, the respective sleeves 13 of the two bars 5 being axially aligned and the sleeves 14 being arranged in register with the sleeves 13 so that each bar 15 will be hingedly attached to the corresponding bar 5 when a rod 16 is arranged to extend through all of said aligned sleeves. Cotter pins 17 are extended through transverse openings in the extending extreme end portions of the rod 16 to prevent such axial movement of the latter as would result in its moving out of engagement with the sleeve portions of the two bars 5. Each bar 15 constitutes the second member of each of the pair of brackets provided for the purpose hereinbefore set out. The bars 15 are connected at their free ends by a rod 18 which extends slidably through aligned sleeve portions 19 formed at the free ends of the bars 15 and which is prevented from disengaging the sleeve portions 19 by cotter pins 20 engaged with the extending extreme end portions thereof.

The bars 5 have tongue portions 21 struck upwardly therefrom in position to enter the space between the diverging ends of the pairs of spacing and reinforcing strips 7 and 8. These tongue portions are bent to provide axially aligned sleeves 22 through which a rod 23 extends. The extending extreme end portions of the rod 23 also are provided with cotter pins 24 for holding the rod against such axial movement as would result in its disengaging the sleeves 22.

The hook portions 12 are fashioned at their free ends to provide aligned sleeves 24 through which a rod 25 extends, the latter being held from moving out of engagement with the sleeves 24 by cotter pins 26 engaged with the extending extreme end portions thereof.

With the arrangement described, the corresponding members of the two brackets are securely stayed to each other. The brackets can be slid on the rods 16, 18, 23 and 25 when detached from the sections 2 and 3 of the platform to permit adjustment of the brackets in respect to each other for engagement with the sills of windows of different widths, the brackets being held in parallel relation to each other during their movements relatively to each other. The bars 15 constitute the brace members of the brackets and may be swung inwardly until in contact at their lower ends with the outer face of the wall of the building provided with the window frame 10. Flexible connectors 27 attached at their lower ends to the rod 18 and at their upper ends to the rod 23 serve to hold the bars 15 in engagement with the outer face of said wall, whereby the platform will be firmly stayed to the wall and thus braced at its outer ends.

A superstructure on the platform serves to shield persons supported on the platform from the gaze of persons adjacent to the building and also protects the occupants of the platform from the wind. This superstructure comprises a guard frame including standards 28 and 29 respectively at the outer corners of this platform and other standards 30 and 31 respectively upstanding from points adjacent to the side edges of the platform and at appreciable distances from the inner end of the platform, being located a distance from the inner end of the platform sufficient to permit the lower sash 32 of the window to be closed and when in closed position to lie in a vertical plane located between the plane of the inner end of the platform and that of the standards 30 and 31. The standards 29 and 31 are connected and stayed together at points adjacent to their upper and lower ends by transverse connectors 33 and 34 respectively. Similar connectors 35 and 36 respectively connect the standards 28 and 30 adjacent to their upper and lower ends. Still other horizontal connectors 37 and 38 respectively connect the standards 28 and 29 at points adjacent to their upper and lower ends. With this arrangement a stable frame structure is provided this frame structure preferably being closed at the sides and outer end by a fabric 39 secured by stitching 40 or any other suitable fastening means to certain or all of the frame members leaving the upper and inner side of the frame structure open so that a person may have access to the platform through the window and when on the platform may move freely without his movements being retarded by the guard structure.

A swingable shelf 41 upon which articles used in the performance of duties requiring the presence of a person on the platform may be placed comprises a substantially U-shaped frame 42 having the arms thereof fashioned at their free ends to provide eyelets 43 through which a rod 44 extending horizontally between the standards 28 and 30 at points intermediate the upper and lower ends of the latter extend, the U-shaped frame 42 having a strip of fabric arranged

in spanning relation to the arms and being secured to the latter by rows of stitching 45 or the like. The fabric 45 constitutes the article supporting member of the shelf and the latter may be releasably held in a horizontal position by hanger arms 47 swingingly attached at their upper ends to the transverse connector 35 and having hook portions 48 at their lower ends adapted for engagement with the web portion of the U-shaped frame. When not in use, the hanger arms 47 may be disengaged from the frame 42 and the shelf may then be swung downwardly into vertical and out of the way position.

From the foregoing description of the various parts of the device, the operation thereof may be readily understood. The device is simple in construction and can be readily attached to and detached from the sill of a window frame of ordinary construction without the use of any tools and without any changes in the construction of the window frame being required. When detached from the window frame, the device can be disassembled and the parts thereof packed to take up but relatively little space.

While I have described the attachment as being adapted for the use of a person engaged in the work of cleaning or repairing windows, yet it will be apparent that the device is capable of other uses. For example, the platform 1 may be of sufficient area to permit of a bed being supported thereon for the use of invalids and others who desire to sleep out of doors. The guard structure would protect such person from the gaze of persons exteriorly of the building and also would afford protection from the wind.

Obviously, my invention is susceptible of embodiment in forms other than that illustrated in the accompanying drawings and I therefore consider as my own all modifications and adaptations of the form of the device herein described which fairly fall within the scope of the appended claim.

I claim:—

A device of the character described comprising a platform adapted to be partially disposed upon the sill of a window frame and to extend beyond the outer edge of the latter, means carried by the platform for engaging with the window sill and with the outer face of a wall provided with the window sill for holding said platform in the aforesaid position in respect to the window sill, a superstructure on the platform having portions upstanding from the sides and outer end of the platform, and a shelf swingably supported on the superstructure, said shelf being foldable from horizontal position to a position in which it is disposed flatwise against one of said upstanding portions of the superstructure.

ANTON NELSON.