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M. BRETOS Y CLAVERIA

FOLDING BLIND WINDOW

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Fig. 3



#### INVENTOR.

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21

24'

18

18

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## UNITED STATES PATENT OFFICE.

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MANUEL BRETOS Y CLAVERIA, OF SANTIAGO, CUBA.

FOLDING-BLIND WINDOW.

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To all whom it may concern: the slats of the blind 4 downwardly in the Be it known that I, MANUEL BREFOS Y direction of closing of the same. CLAVERIA, a subject of the King of Spain, The lowermost link, designated as 5 enresiding at Santiago de Cuba, Republic of gages a hook 14 which has an opening 15, 60 5 Cuba, have invented certain new and useful one inner side of which has notches 15', 15" Improvements in Folding-Blind Windows, and 15''' to receive a button 16 extending out of which the following is a specification. from a horizontal bolt 17, sliding between This invention relates to folding blinds braces 16 secured to the front side of the and has for its principal object to furnish door under the opening 3. This bolt, on the 65 10 a construction of blinds, which, besides be- lower side, has an angular extension 17' ing able to remain stationary in any one of which passes through a horizontal tubular three positions, that is to say, open, closed guide 19 secured to the door under the bolt or half-open, in the case of being open with 17. The extension 17' has sleeved on it, a its slats extended, is automatically closed, spring 20, which urges the bolt to unlocking 70 15 upon folding of a door containing it, thus position, and also holds the bolt 17 to keep permitting operation of the same. the button 16 in engagement in any one of The invention is disclosed herein, refer- the notches 15', 15" and 15". The bolt 17 is ence being had to the accompanying draw- connected, at its outer end, to a bracket 21 ings, in which similar characters of refer- in alignment therewith by a slot and screw 75 20 ence designate similar parts, wherein, connection 21'. Fig. 1 is a front fragmentary elevation of The outer end of the bracket 21, is forked. a blind provided with the improvement and loosely carries a roller 22, which as which is the object of this invention, and in- shown in Fig. 5, engages, at a given moment, stalled in a folding door. with a cam 23 in a guide 24', integral with 80 an angular bracket 24 which is secured to Fig. 2 represents, in the same manner, one 25one of the guides 2 of the folding door, in a operative position of the blind, Fig. 3 is a vertical section, on an enlarged higher plane above that which the blind occupies when the door is unfolded. scale, on line 3-3 of Fig. 1, Fig. 4 is a vertical section, on an enlarged The operation of the construction shown, 85 30 scale, on line 4-4 of Fig. 2, and is as follows:---Fig. 5 is a horizontal section, on an en- To operate the blind, the bolt 10 is drawn to the right and the hook 14 is pulled downlarged scale, on line 5-5 of Fig. 2. In the drawing is shown a portion of a wardly, overcoming the tension of the spring folding door 1, slidable in guides 2, of which 12 which tends to force the blind to its closed 90 35 only one is illustrated, the door having an position. The button 16 of the bolt 7 is enopening 3, which is covered by a blind gaged in any one of the notches 15', 15" and formed by slats 4, mounted to turn relative 15''' according to the desired blind opening. to the sides of the opening 3, and connected Assuming the button 16 engaged in the together by link elements 5, the upper ends notch 15', that is, with the slats 4 open as in 95 40 of which are forked and engaged in short Figures 1 and 3, if, by any oversight, the horizontal shafts 6, mounted between brack- blind be left open when the folding door 1 is ets 7, formed by beaded extensions project- to be folded, on pushing the door upwardly ing from the center of each of the upper between the guides 2, the roller 22 will slide borders of the slats. over the cam surface 23, thus pushing the 100 45 To the shaft of the uppermost link 5 des- bolt 17 against the tension of spring 20, and ignated by 8, is connected a member 9 end- thus disconnecting the button 16 from the ing, at the upper portion in a beaded ear to slot 15', all as clearly shown in Figs. 2 and 5. constitute a socket for a bolt 10, sliding in Thereupon the blind, due to the upward a brace 11, secured to the front side of the tension of the springs 12, will close auto- 105 50 door and at the upper edge of the opening 3. matically. In the upper part of piece 9, and on the Having described one embodiment of my inner side of the same, is a socket piece 9', invention, I now claim: used as a stop to the free ends of two leaf 1. An apertured folding closure member, springs 12 which are fastened at their oppo- a folding blind covering the aperture in the 110 55 site ends to braces 13, fastened at each side closure member and cooperating mechanism of hook 9, which springs 12 tend to force on the blind and the closure member for

#### (1,515,929)

folding the blind upon the folding of the including, a hook connected to one of the 15 closure member. links, a slidable bolt, a button on the bolt,

a folding blind covering the aperture in the button, to hold the blind in various open po-5 closure member, means biasing the blind to sitions, resilient means urging the button in various open positions against the biasing roller on one end of the bolt, and a cam at means, and means, operable upon the fold- the edge of said closure, the cam operating ing of the closure member to make the catch the roller upon folding of the closure, to re-10 ineffective against the biasing means. lease the catch and permit the biasing means

3. Apparatus according to claim 2, said to close the slats of the blind. blind including a plurality of rockable slats, In testimony whereof I have signed my links interconnecting the slats, said biasing name to this specification. means comprising a leaf spring, said catch MANUEL BRETOS Y CLAVERIA

2. An apertured folding closure member, a toothed slot in the hook for receiving the closed position, a catch for holding the blind into engagement with the toothed slot, a 20 25

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