

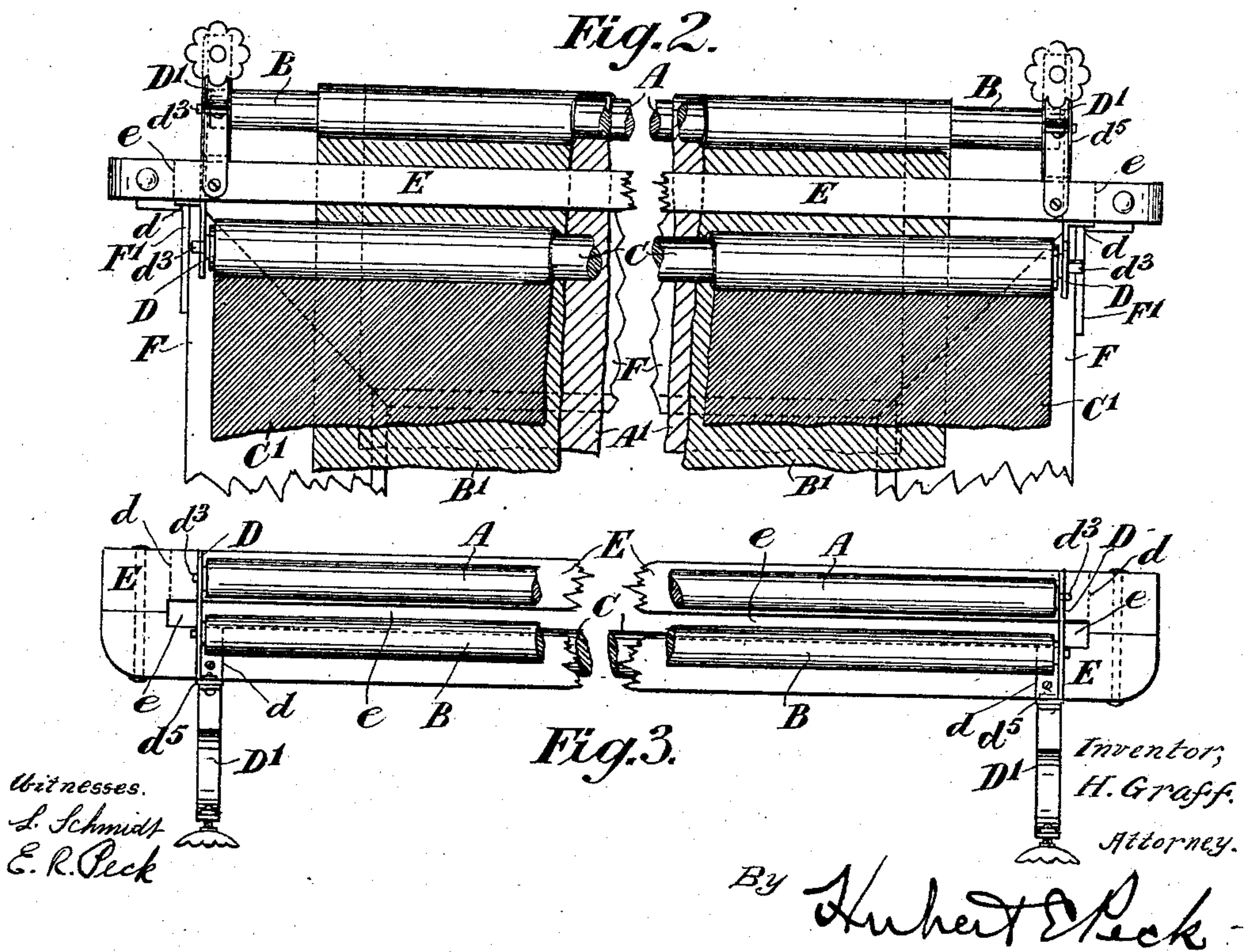
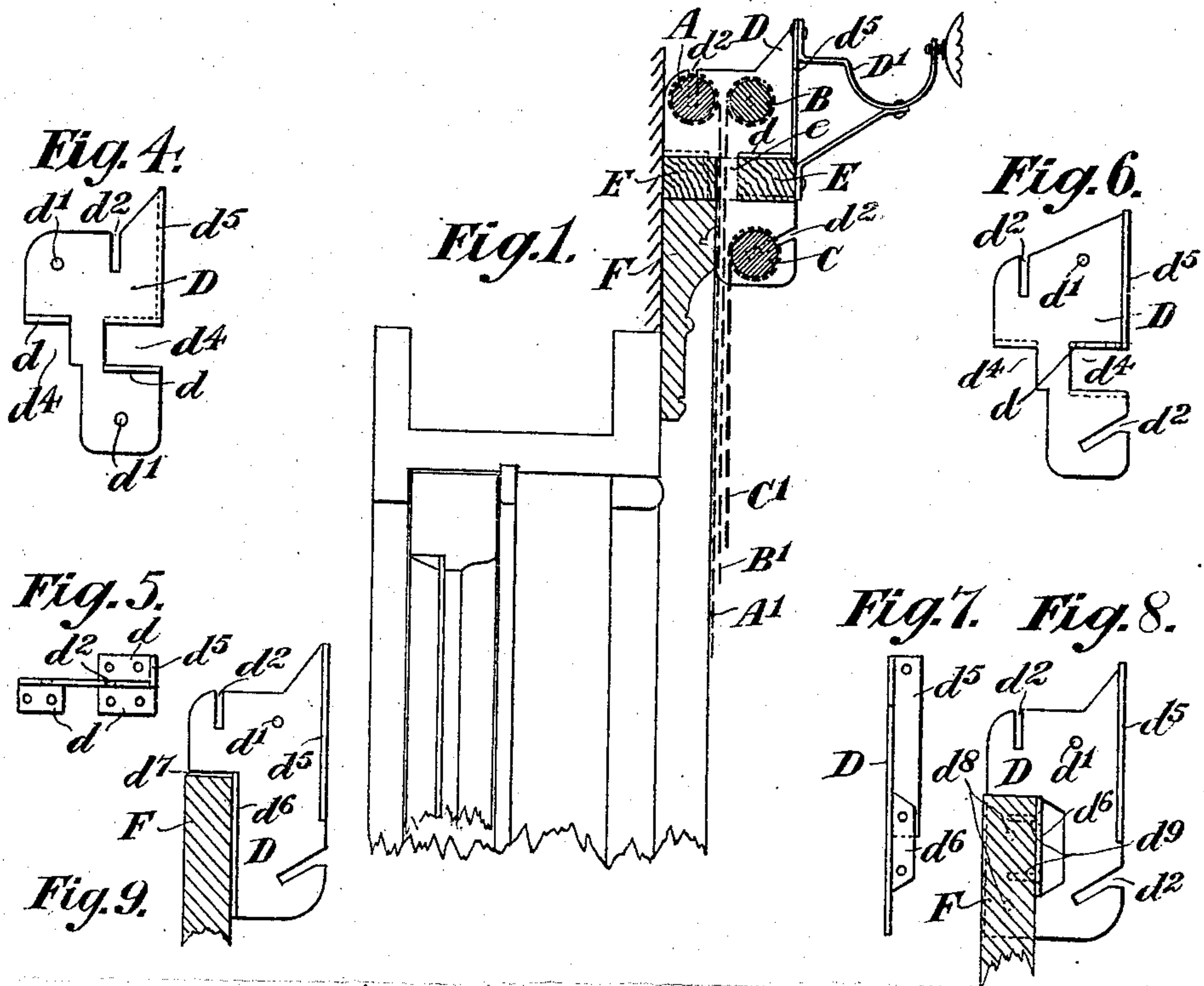
No. 840,313.

PATENTED JAN. 1, 1907.

H. GRAFF.

MULTIPLE ROLLER BLIND AND FIXINGS FOR SAME.

APPLICATION FILED DEC. 11, 1905.



UNITED STATES PATENT OFFICE.

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MULTIPLE ROLLER-BLIND AND FIXINGS FOR SAME.

No. 840,313.

Specification of Letters Patent.

Patented Jan. 1, 1907.

Application filed December 11, 1905. Serial No. 291,346.

To all whom it may concern:

Be it known that I, HILMAR GRAFF, commercial traveler, a subject of the King of Great Britain and Ireland, residing at No. 274 Post Office Place, Melbourne, in the British State of Victoria, Commonwealth of Australia, have invented a certain new and useful Improved Multiple Roller-Blind and Fixings for Same, of which the following is a specification.

This invention relates to improved multiple roller-blinds and fixings for same, each blind being supported by fixings of novel construction and in such a manner that each blind is independent of the others in its action, and thus when, say, three blinds comprise the series the first blind, or that nearest the window, will be, say, of light material in order that it when drawn down will admit a certain amount of light, the second blind will be of a darker or denser material, so that when drawn upon the first blind less light will be admitted, and, again, when the third blind is drawn down, and which is of a still darker or denser material, then it will practically obscure all light. Further, the multiple roller-blinds may be used for supporting blinds of different designs or colors.

The rollers carrying the blinds are preferably of the spring-roller type, and they are supported at each end in a novel form of plate metal brackets which provide the bearings for the whole of the rollers of the series, and such brackets may also support the curtain-pole brackets. Said metal brackets may be secured to a slotted plate or pieces of wood, which stretches across the window-frame and is usually supported on the top of the window architrave and then secured at such a position by such as angle-brackets, while the metal brackets are of such a construction that they usually support two of the roller-blinds above and one below it. Again, when so desired, the metal brackets can be secured direct to the architrave or window-frame and so dispense with the slotted plate. The blinds, carried by said upper rollers, pass down through the slot in said wood plate, when it is employed, and hang at back of the lower blind, which is usually used for obscuring the light.

The invention will now be more fully de-

scribed aided by a reference to the accompanying sheet of drawings, in which—

Figure 1 is a central vertical section of the upper part of a window-frame, showing the multiple roller-blind supported upon the top architrave; and Fig. 2, a front view of the multiple blinds, while Fig. 3 is a top plan of the blinds and showing the slotted wood plate or pieces which carry the roller-supporting brackets. Figs. 4 and 5 are side view and plan, respectively, of one of the pair of supporting-brackets which is secured on the wood plate; and Fig. 6 is a modified construction of same. Figs. 7 and 8 are end and side views, respectively, showing a further modification of supporting-brackets and which are designed for being secured direct to the edges of the architrave near its top, and thus dispensing with the slotted wood plate. Fig. 9 is a similar view to Fig. 8, but showing the supporting-bracket as designed to be secured to the front of the architrave at any desired position to suit the length of roller used.

The series of rollers A, B, and C, as shown, are supported at each end in a metal or plate bracket D of the form shown in Figs. 4 and 5, and which bracket may either be stamped out of sheet metal or be made of cast metal. Said rollers are preferably of the spring-roller type and carry the blinds A', B', and C', respectively, which may be of different colors or materials for regulating the admission and the obscuring of light. The metal brackets D are provided with projecting lugs d , provided with screw-holes to receive screws by which to secure them to, above, and below the slotted wood plate E, which may be constructed in two pieces, and so forming a slot of sufficient length and width to allow the blinds supported on the upper rollers A and B to hang down through said slot to a position behind the lower roller-blind C'. Also the metal brackets D are provided with the necessary bearing-holes d' and slots d^2 for the metal pintles or terminals d^3 of the series of rollers, and also the brackets are slotted or recessed at d^4 to receive the wood plate or pieces E. The brackets D are also furnished with a perpendicular flange d^5 , to which flanges d^5 the curtain-pole brackets D' are secured, although I do not wish to limit my

invention to the employment of flanges d^5 . The wood plate E has its back edge lying on the top of the architrave F, and it is secured thereat by means of angle-brackets F' and in such a position that the blinds will hang as close as possible against the window-frame.

The blinds, as shown in Fig. 2, may be of any suitable width. For instance, the inner blind A', which usually admits light, may be of a width to suit the window-sashes, while the other blinds B' and C', which partly and wholly obscure the light, may be the full width of the window-frame.

As shown in Fig. 6, the holes d' and slots d^2 , forming the bearings for the metal terminals of the rollers, may be arranged out of horizontal line with one another to increase their distance apart, and so allow rollers of larger diameter to be used.

Figs. 7 and 8 show a modified form of bracket D, by means of which the wood plates or pieces E are dispensed with, the brackets being so formed that they can be secured to the front and edge of the architrave F at its top corner by screws d^8 and d^9 passing through the bracket itself and through a projecting flange or lug d^6 , respectively. Again, as shown in Fig. 9, the bracket D is further modified by its having a recess at d^7 provided with a projecting flange or lug d^6 , by means of which it may be secured to the front of the architrave, and thus allow rollers of any length to be used.

It will be understood that I do not confine myself to the number of roller-blinds forming the series, as the brackets may be made to take any number up to and including four.

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

1. Supports for multiple roller-blinds comprising a horizontally-disposed supporting-frame adapted to be secured to the window-frame and having a longitudinal opening, and vertically-disposed metal brackets secured to and extending above said supporting-frame, and adapted to detachably receive rollers arranged above the supporting-frame with the blinds thereof depending through said opening, substantially as described.

2. Supports for multiple roller-blinds comprising a horizontally-disposed supporting-frame adapted to be secured to a window-frame, and vertically-disposed metal brackets notched to receive the supporting-frame and secured thereto and extending above and below the same and formed to detachably receive several rollers, substantially as described.

3. Supports for multiple roller-blinds comprising a pair of flat metal brackets adapted to be vertically arranged, and formed with transverse openings to receive the terminals of several rollers, each plate having its front vertical edge formed with a lateral vertical curtain-pole-bracket-receiving flange, and its rear portion notched to fit horizontal and vertical faces of a support and provided with a lateral flange to fit such support, substantially as described.

4. In combination, supports, a pair of flat plate metal brackets having their rear portions notched to fit such supports, whereby the brackets extend vertically above and forwardly from such supports, said brackets formed with transverse openings above said notches to receive the terminals of roller-blinds, substantially as described.

5. In combination, supports, vertical plate metal brackets notched to receive and having lateral flanges to fit and be secured to said supports, said plates formed with transverse openings in their upper portions above said notches and in their lower portions to detachably receive the end terminals of several parallel blind-rollers.

6. In combination, a horizontal support, a pair of parallel flat metal brackets, each at its rear portion notched to fit down on said support and extend vertically above the same and depend below the plane of the top edge thereof, said brackets having lateral flanges to fit and be secured to said supports, and formed with transverse openings in said upper and depending portions to receive the terminals of several parallel blind-rollers.

7. Supports for roller-blinds comprising a pair of plate metal brackets having bearing-holes and slots for roller-terminals, each bracket being notched at the rear portion and formed with a lateral securing-flange, in combination with a horizontal support fitting in said notches, substantially as described.

8. In combination, a pair of vertical plate metal brackets having bearing holes and slots for roller-terminals, a horizontal support having front and rear portions, each bracket being notched at its front and rear edges to receive said portions of said support and provided with lateral flanges adapted to fit and be secured to said support portions, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

HILMAR GRAFF.

Witnesses:

BEDLINGTON WIDYCOMB,
W. J. S. THOMPSON.