

Sept. 6, 1927.

1,641,523

A. L. BELL

GRILLE FRAME

Filed July 6, 1925

Fig. 1.

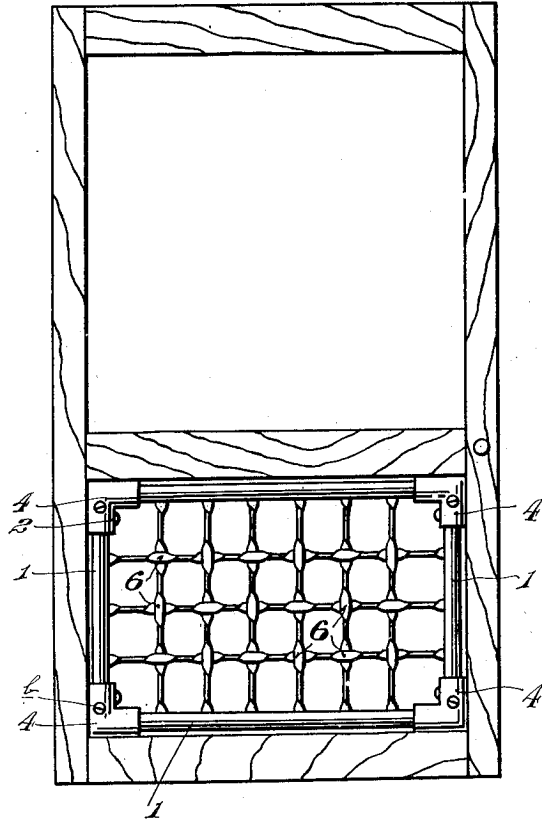


Fig. 2.

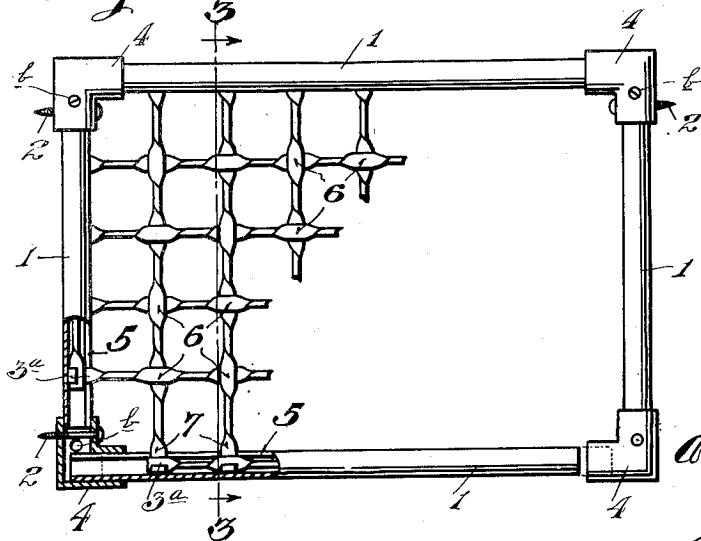
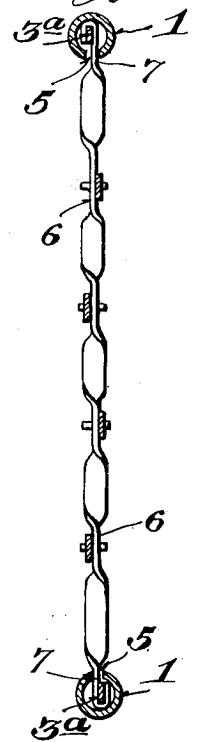


Fig. 3.



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GRILLE FRAME.

Application filed July 6, 1925. Serial No. 41,592.

This invention relates to grille frames such as are employed to reinforce and protect openings, and pertains more especially to a grille frame used in connection with the screened openings of screen doors or the like.

The primary object of the invention is to provide an improved grille frame which can be easily and quickly assembled, and subsequently accurately fitted to the opening of a door or the like by the purchaser and while the frame is disposed in the opening, as distinguished from rigid frames which are specially constructed for certain sized openings and which are assembled at the factory.

In the drawings:—

Fig. 1 is a side elevation of a door showing the invention applied thereto;

Fig. 2 is an enlarged view of the frame in detached position, parts being broken away and shown in section, and illustrating the method of assembly; and

Fig. 3 is an enlarged section on line 3—3 of Fig. 2.

In proceeding in accordance with the present invention, four tubular elbows are employed which are drilled to receive the fastenings, later described. The sides and ends of the frame are formed of sections of tubing 1 which latter are longitudinally slotted as indicated at 5. The grille fabric 6 is formed of longitudinal and transverse strips of metal, the ends of the strips being formed with necks 7 receivable in the slots 5 and heads 3^a, receivable on the interiors of the tubular sides and ends. The heads may be formed as shown in Figs. 2 and 3 wherein the ends of the strips are bent into engagement with the adjacent strips. It will be thus noted that the sections of tubing can be freely slid over the margins of the grille fabric. By referring to Fig. 2, it will be noted that the tubing is made of such lengths so as to allow same to be slid in the elbows.

In assembly, three of the elbows are applied to the tubing after the latter has been slid onto the grille edges and then the two tubes defining the fourth corner are further slid into the elbows, which receive the ends of such tubes, thus enabling the fourth elbow to be positioned as shown in Fig. 2, and following such positioning, the two tubes are slid in the opposite direction or outwardly to enter the fourth elbow, completing the assembly. The members 1 can be slid axially of the elbows in both directions, thus permitting easy and quick assembly and disassembly of the frame.

From the foregoing, it will be seen that the frame can be accurately fitted to the opening while in the latter, thus assuring the elbows being accurately fitted in each of the corners of the opening. After the parts into the position of Fig. 1, screws 2 are driven through the elbows and into the walls defining the door opening. Additional screws *b* may be employed to secure the elbows against the front face of a door or the like.

A grille frame for the screened openings of screen doors or the like including slotted tubular members, fabric having its marginal edges formed with necks and heads, the necks being received in the slots of the tubular members and the heads being received in the interiors of the members, corner-forming elbows for the frame slidably connected to the tubular members, the tubular members being of a length to permit same to be slid axially in both directions, of and while the elbows remain connected to the tubular members so as to assemble and disassemble the frame and to adjust same to and while disposed in an opening, and means to secure the elbows in the corners of the opening.

In testimony whereof I affix my signature.

ALVIN L. BELL.