

Aug. 4, 1931.

F. J. RICHARDSON

1,817,847

FOLDING METALLIC AWNING

Filed Sept. 27, 1930

3 Sheets-Sheet. 1

Fig. 1.

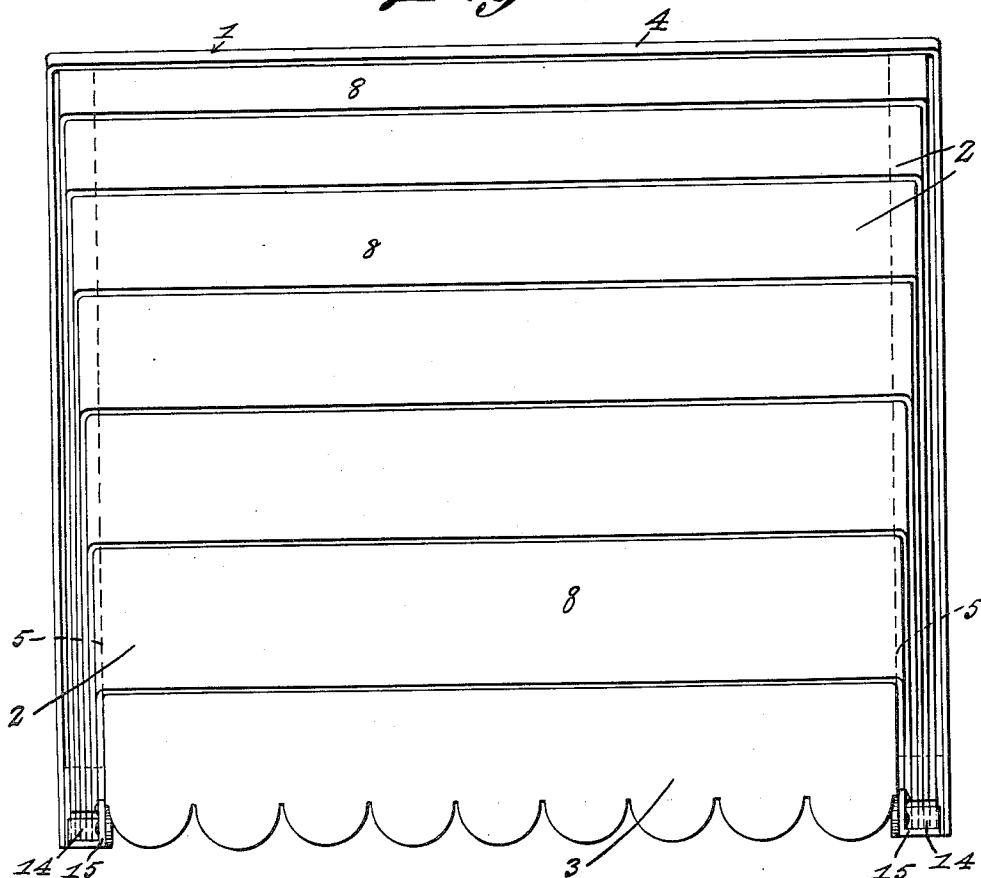


Fig. 5.

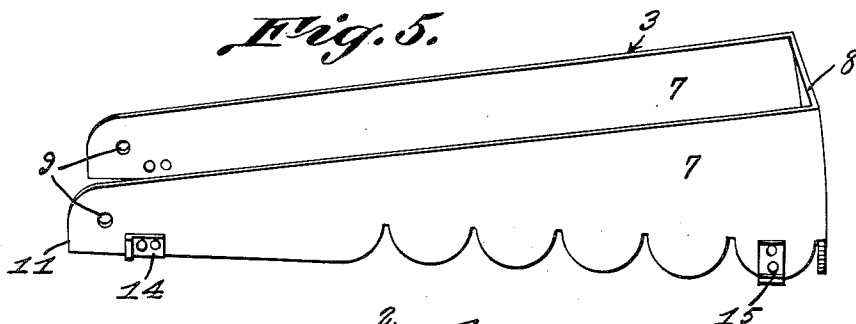
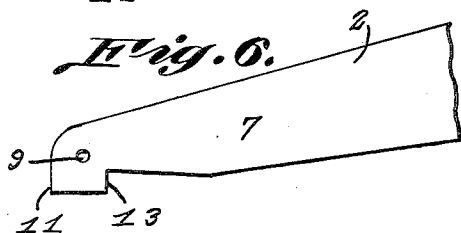


Fig. 6.



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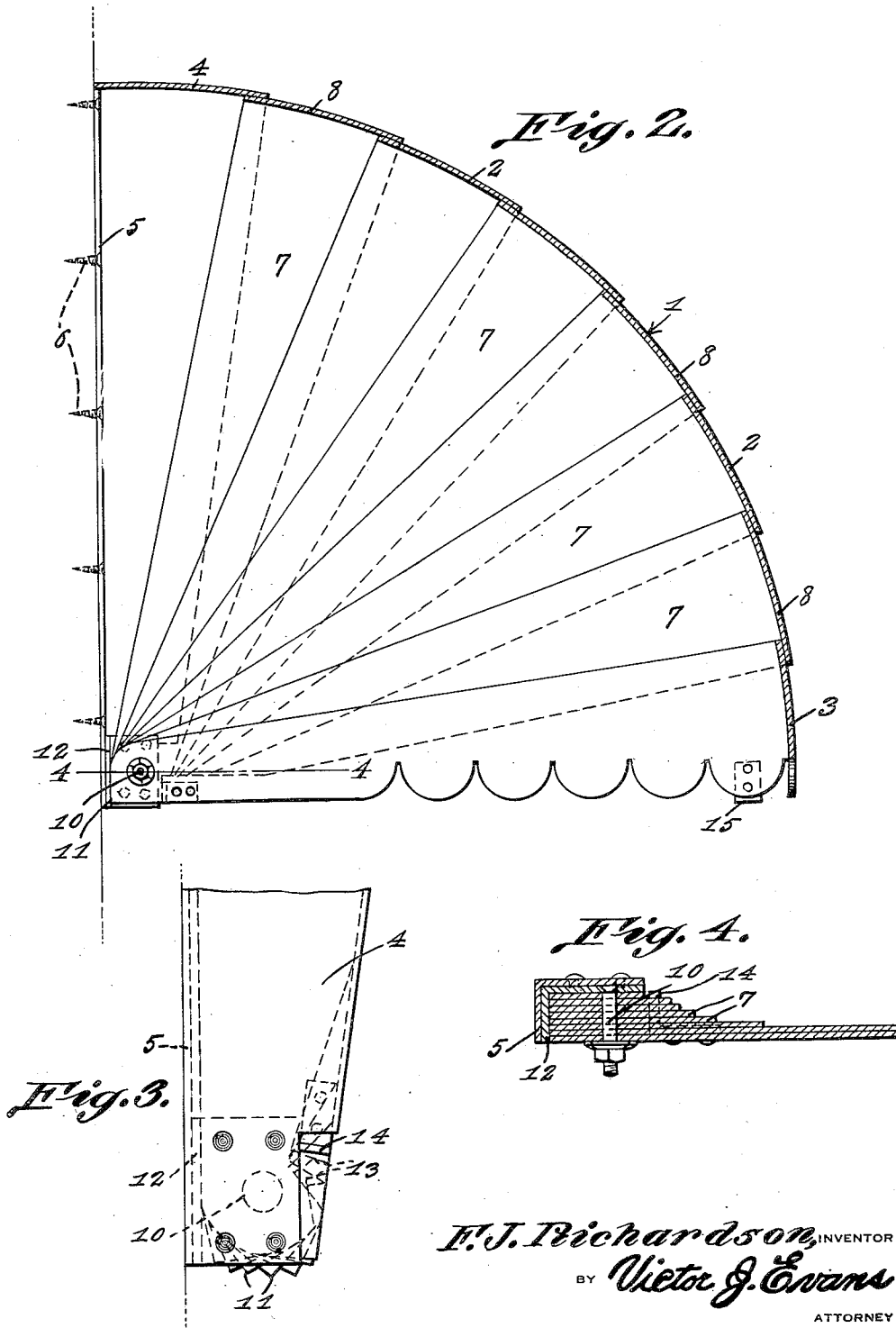
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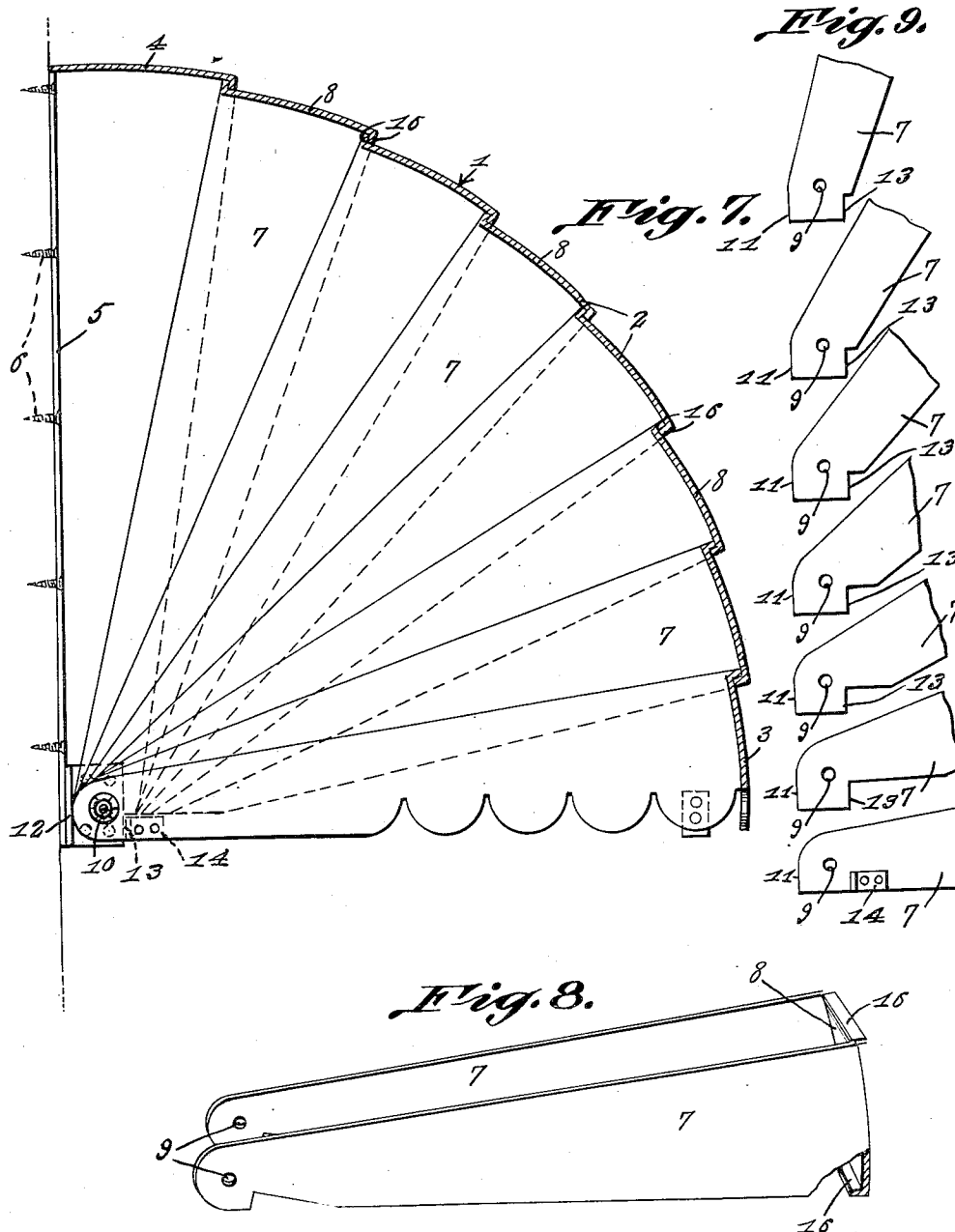
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UNITED STATES PATENT OFFICE

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FOLDING METALLIC AWNING

Application filed September 27, 1930. Serial No. 484,872.

This invention relates to improvements in awnings and has for the primary object, the provision of a device of the above stated character of metallic construction which will afford longer life than received from awnings of fabric and the like now commercially employed and is capable of easy and quick folding or unfolding as desired.

Another object of this invention is the provision of a plurality of metallic sections telescopic relative to each other that the device may be collapsed or extended and are provided with means which will cause the sections to move one within the other when the end or lowermost section is elevated or raised to collapse the device.

A further object of this invention is the provision of a folding metallic awning of the above stated character which will be simple, durable and efficient and which may be manufactured and sold at a comparatively low cost.

With these and other objects in view as will become more apparent as the description proceeds the invention consists in certain novel features of construction, combination and arrangement of parts as will be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawings in which:

Figure 1 is a front elevation illustrating an awning constructed in accordance with my invention and showing the device in an extended position.

Figure 2 is a sectional view illustrating the awning in an extended position.

Figure 3 is a fragmentary view illustrating the ends of the sections of the awning bevelled or formed at various angles for limiting the movement of the sections relative to each other when the awning is moved into an extended position as shown in Figure 2.

Figure 4 is a detail sectional view taken on the line 4—4 of Figure 2 illustrating the stop for causing the sections to telescope one within the other when the lower or end section is elevated to collapse the awning.

Figure 5 is a perspective view illustrating one of the end sections.

Figure 6 is a fragmentary side elevation illustrating one of the ends of one of the sections.

Figure 7 is a sectional view similar to Figure 2 illustrating a modified form of my invention.

Figure 8 is a perspective view illustrating one of the sections of my modified form of invention.

Fig. 9 is a fragmentary side elevation illustrating the ends of the sections in spaced apart relation in the order of mounting.

Referring in detail to the drawings, the numeral 1 indicates a metallic awning including a plurality of intermediate sections 2 and end sections 3 and 4 and the latter section is provided with attaching flanges 5 having apertures to receive screws or like fasteners 6 for securing the awning in position to a building or like structure. The sections 2 and 3 have telescopic relation and also telescope into the section 4 when the awning when the sections are extended as shown in Figure 2. The end plate 8 of each section is located at one of the ends of the side portion 7 while the opposite ends of said side portions are provided with aligned apertures 9 to receive pivot bolts 10 to permit the sections 2 and 3 to be folded or extended relative to each other and the section 4 when desired.

The section 3 has certain edges thereof scalloped to provide the awning with an attractive and finished appearance.

The pivoted ends of the sections 2 and 3 are each bevelled or cut at a different angle to form stops 11 that have abutting engagement with angle iron plates 12 riveted or otherwise secured to the section 4 for limiting the outward movement of the sections relative to each other and for the purpose of maintaining the various sections in awning formation when extended.

Side members 7 adjacent the pivoted ends of the sections 2 are cut away to form should-

ders 13 to be engaged by angle iron stops 14 secured to the side members 7 of the section 3 so that when the section 3 is lowered in any well known manner the stops 14 engaging the shoulders 13 causes the sections to unfold or move outwardly of each other into awning forming position as shown in Figure 2. The side members of the section 3 have brackets 15 to engage the intermediate sections and cause them to telescope one within the other and within the section 4 during the elevation or raising of the end section 3.

Referring to Figures 7 and 8 which disclose my modified form of invention the sections each have formed thereon oppositely extending flanges 16 adapted to interlock or engage each other when the sections are extended as shown in Figure 7 to prevent separation of the sections when in this position. In this form of my invention the stops 11 of different bevels or angles on the sections 2 and 3 are eliminated.

From the foregoing description taken in connection with the accompanying drawings, it will be noted that a metallic awning has been provided capable of all the advantages of fabric awnings and the like with the addition of longer life, cheaper in construction and easier in installation. It is to be noted that the various sections comprising the awning each may be constructed out from a single piece of metal and easily bent or shaped in a desired formation consequently reducing the time and cost in the manufacture of such devices. The awning is constructed of weather-resisting metal assuring longer life and fire-resisting qualities and further the construction in accordance with the foregoing permits the awning to be partly folded or collapsed without sagging or disarrangement of the parts relative to each other. The device when completely folded exposes the entire window or like and the full amount of ventilation and illumination through the window may be had.

While I have shown and described the preferred embodiment of my invention, it will be understood that minor changes in construction, combination and arrangement of parts may be made without departing from the spirit and scope of the invention as claimed.

Having thus described my invention, what I claim is:

1. An awning comprising a plurality of metallic sections pivotally connected for telescopic relation with each other, means rigidly mounting one of the end sections, a stop carried by the other end section, and the intermediate sections having cut away portions to form shoulders to be engaged by the stop for collapsing the sections one within the other.

2. An awning comprising metallic end and intermediate sections, means pivotally con-

necting the sections, means rigidly mounting one of the end sections, said intermediate sections having their pivoted ends bevelled at different angles to form stops for engagement with the rigid section to limit the outward movement of the sections relative to each other, said intermediate sections having cut away portions to form shoulders, and a stop carried by the other end section for engagement with the last named shoulders for collapsing the sections one within the other during the elevation of the said last named end section.

In testimony whereof I affix my signature.

FRANCIS J. RICHARDSON.