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C. E. MULLIN
FOLDING METAL AWNING

2,572,944

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2 SHEETS—SHEET 1

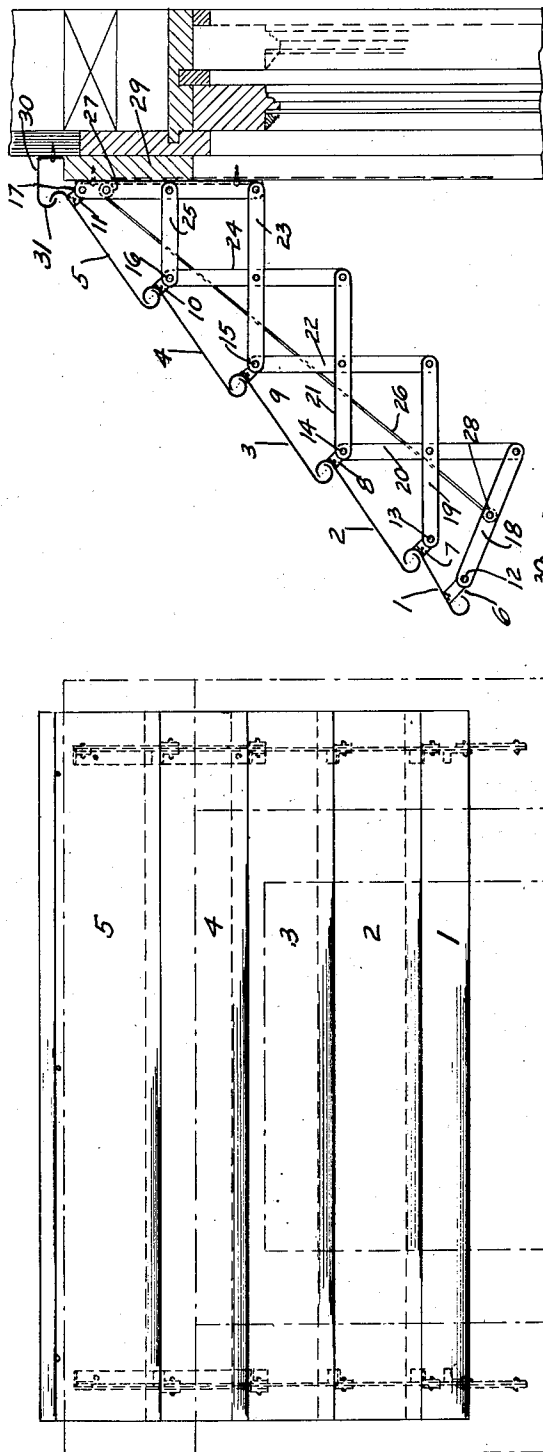


Fig. 1.

Fig. 2.

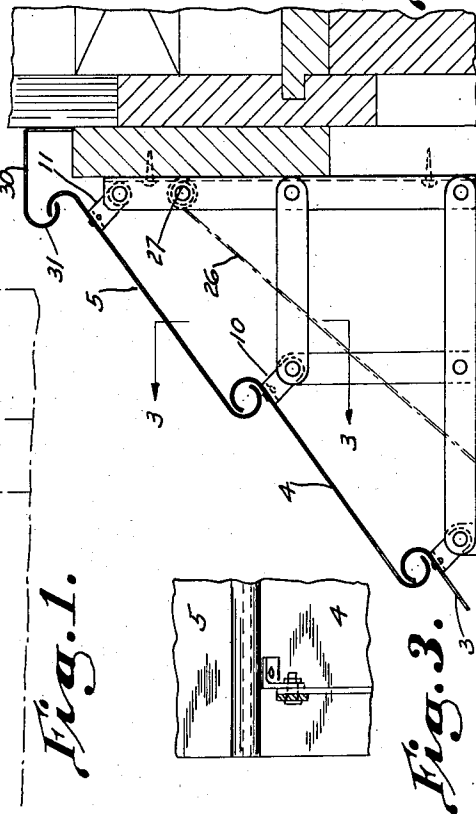


Fig. 3.

Fig. 4.

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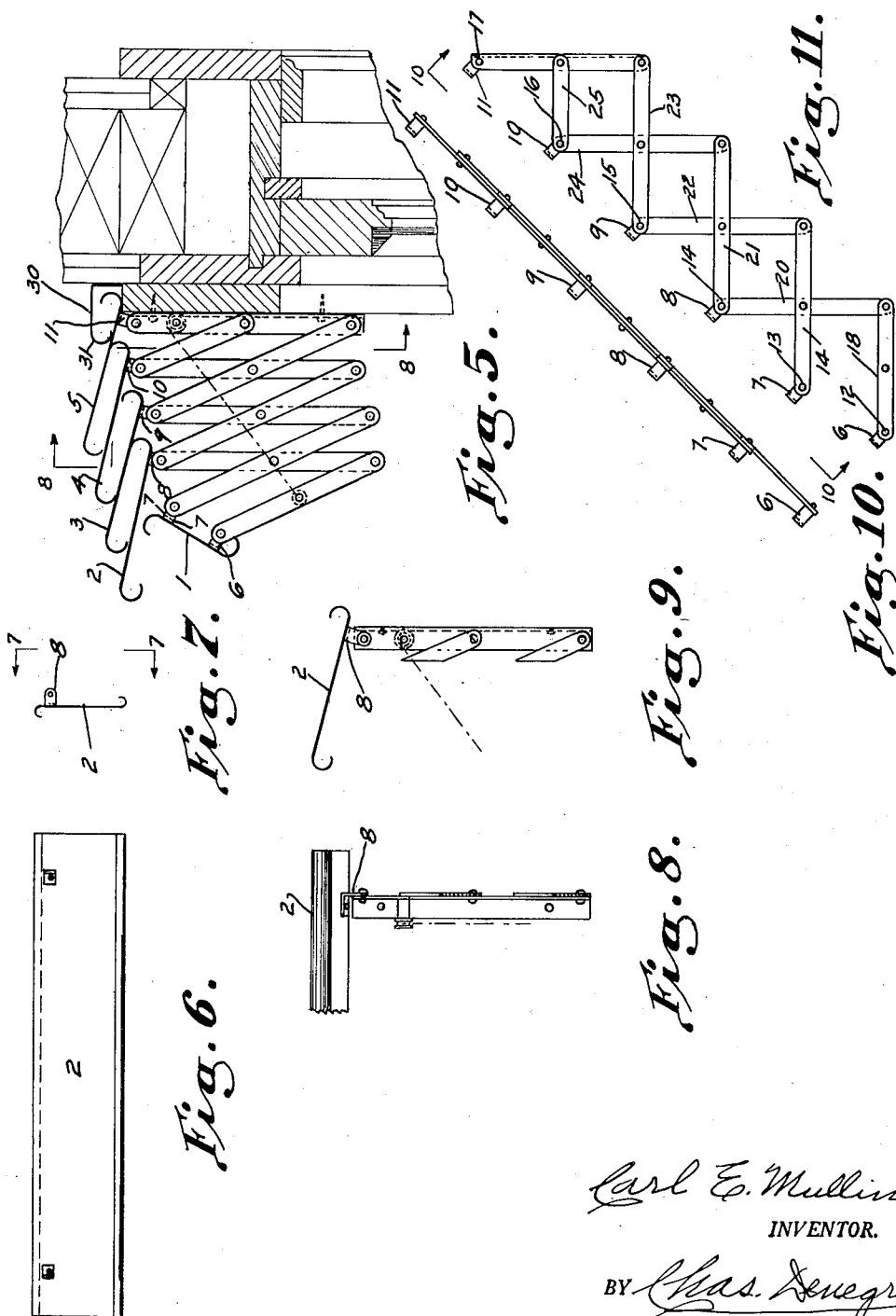
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UNITED STATES PATENT OFFICE

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FOLDING METAL AWNING

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3 Claims. (Cl. 160—62)

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This invention relates to a folding metal awning. It has for its main objects to provide such an awning that will be highly efficient for the purpose intended, simple in structure, cheap to manufacture, easy to use, and extremely durable.

Such structures have been devised in an attempt to provide a metallic type of awning. However, they have not proven entirely satisfactory as a result of being relatively complicated, cumbersome and expensive to manufacture.

Other objects and advantages will appear from the drawings and description.

By referring generally to the drawings, part of this application, it will be observed that Fig. 1 is a front elevational view of an awning made according to the present invention in open condition for use over the upper portion of a window; Fig. 2 is an end view of Fig. 1; Fig. 3 is a detail view on line 3—3 of Fig. 4 showing how the awning slats are attached to the supporting expandable arms; Fig. 4 is an enlarged fragmentary view showing the upper end portion of the awning and window frame; Fig. 5 is an end view showing the awning in near complete folded condition; Fig. 6 is a plan view of one of the slats of the awning; Fig. 7 is an end view of Fig. 6 on line 7—7; Fig. 8 is a sectional view on line 8—8 of Fig. 5 showing one end of the assembly; Fig. 9 is an end view of Fig. 8; Fig. 10 is a view of Fig. 11 on line 10—10; and Fig. 11 is a side view of one end supporting means in expanded condition.

Similar reference numerals refer to similar parts throughout the several views.

Referring to the drawings in detail it will be seen that the assembled awning comprises slats 1, 2, 3, 4 and 5 attached by their ends to brackets 6, 7, 8, 9, 10 and 11 that are pivoted at 12, 13, 14, 15, 16 and 17 on expandable arms 18, 19, 20, 21, 22, 23, 24, and 25. The edges of the slats are curved substantially half-round and interlock with each other as plainly shown in Figs. 1, 2 and 4 when the awning is in open position, and slide apart as shown in Fig. 5 when the awning is in partly folded position. When the awning is completely folded the supporting expanding arms are in contact with each other except the upper ends of the two lower arms which remain apart as they are both attached to the lower slat as plainly shown in Fig. 5. The awning is provided with a rope or chain 26 at each end that pass over pulleys 27 with the outer ends attached to the lower arms or brackets at 28. The ropes or chains are adapted for manual operation for pulling the awning to its folded

position adjacent the window frame 29. A cornice 30 is attached in fixed position adjacent the top edge of the awning. It is provided with a curved edge 31 for interlocking with the upper edge of the top slat.

From the foregoing it will appear that an awning made according to the present invention will be easy to install over the upper part of a window by attaching with screws to the outer frame of the window. In open condition for use it will cut out sun rays, be water proof in its interlocking joints, and permit plenty of ventilation which is an important feature. In its folded condition, it will be positioned adjacent the window frame and cause very little obstruction to sun rays.

The awning may be made of any material suitable for the purpose, but I prefer to use aluminum for all parts except steel where necessary. Also the awning may be made in different sizes and capacities, depending on where to be used.

While I have shown and described the preferred embodiment of my invention, I do not wish to limit same to the exact and precise details of structure, but reserve the right to make all modifications and changes so long as they remain within the scope of the invention and the following claims.

Having described my invention I claim:

1. A metal folding awning of the character described comprising, a plurality of slats, each slat being elongated in form and being straight and curved in cross section, the long edges of each slat defining an approximate half-circle, one of said curved edges being turned from one face of the slat, the other edge being turned from the opposite face of the slat, the normally lower one of said slats having two brackets attached at each end thereof, the other slats having one bracket attached at each end of each slat.

2. A metal awning of the class described according to claim 1, wherein, a supporting assembly of expandable arms are attached to each end of the said slat brackets, said arms holding the curved edges of successive slats interlocked with each other when the assembled awning is in open condition and holding the slats overlapping each other when the awning is in folded condition; a cornice positioned along the top edge of the awning, the outer edge of the cornice defining an approximate half-circle and being interlocked with the top edge of the upper slat when the awning is in open position and having its curved edge spaced apart from said edge of the upper slat when the awning is in folded position; said awn-

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ing being operable by strand and pulley means, said means including strands attached to the respective lateral ends of the assembly, one end of each strand being attached to the adjacent lower member of the expansible arms, each strand passing through the associated pulley and the free ends of the strands being manually operable to open and fold the awning.

3. A metal foldable awning of the class described comprising, a plurality of slats forming a nested assembly, each of said slats being elongated in form and being flat with its long edges curved to an approximately half-circle, one of said curved edges being turned from the plane of one face of the flat portion and the other edge being turned from the opposite face thereof, the normally lower slat of the awning having two brackets attached at each end thereof, the other slats having one bracket attached at each end of each slat; a supporting assembly of expandable arms mounted in each end of the awning and pivoted together, the upper ends of the arms pivotally attached to the brackets on the respective slats, said arms holding said slats with their curved edges successively interlocked when the assembled awning is in open position and holding the slats overlapping each other when the awning is in folded position; a cornice positioned along the upper edge of the

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upper slat, the outer edge of the cornice defining an approximate half-circle and this edge being interlocked with the top curved edge of the top slat when the awning is in open condition and spaced apart from the curved edge of the top slat when the awning is in its folded condition; rope and pulley means mounted in each lateral end of the awning, said means consisting of a rope attached in each end of the assembly with one end of the rope being attached to the lower member of the expandable arms and the rope passed through a pulley, the awning being manually operable by the free ends of said ropes.

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