C. CARSON.

ROOFING CLAMP.

APPLICATION FILED AUG. 6, 1920.

1,397,033. Patented Nov. 15, 1921.

Fig. 1.

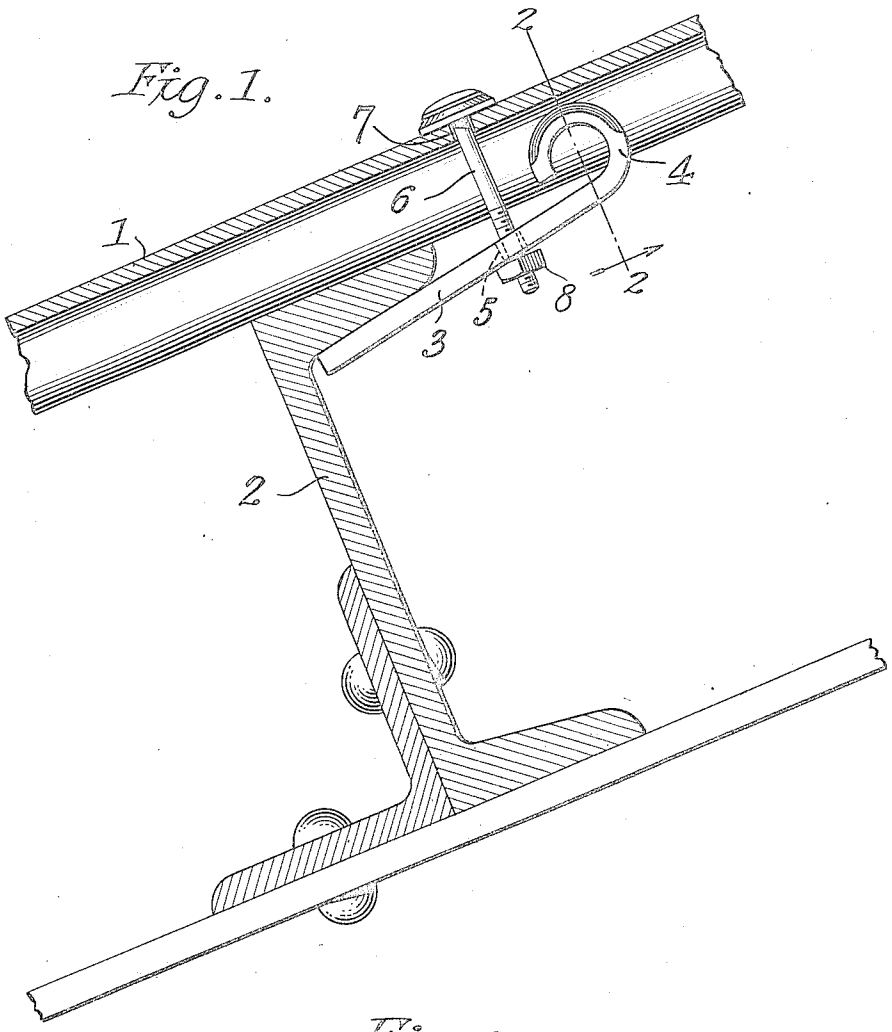
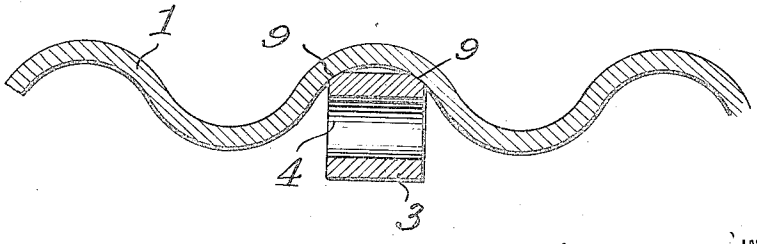


Fig. 2.



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ROOFING-CLAMP.

1,397,033. Specification of Letters Patent. Patented Nov. 15, 1921.

Application filed August 6, 1920. Serial No. 401,691.

To all whom it may concern:

Be it known that I, CLARENCE CARSON, a citizen of the United States of America, residing at New Rochelle, county of Westchester, State of New York, have invented certain new and useful Improvements in Roofing-Clamps, of which the following is a specification.

My invention relates to corrugated metal roofing and consists of an improved form of clamp for holding the corrugated metal sheets to the channel irons or other beams of the roof structure, or other framework.

The best form of apparatus embodying my invention at present known to me, is illustrated in the accompanying sheet of drawings, in which—

Figure 1 is a vertical section through a roof, with parts broken away and showing the clamp in side elevation in operative position, and

Fig. 2 is a detail cross section on line 2—2 of Fig. 1.

Throughout the drawings like reference characters indicate like parts.

1 is a sheet of corrugated metal forming part of a roof, resting on cross beam 2. To fasten the corrugated sheet to the beam I employ a clamp made of a flat strip of metal 3, curled upward at one end 4, the upper corners of the cross section of the curved portion being chamfered off, or flattened, as shown in Fig. 2, so as to approximately conform to the curvature of the under side of any corrugation in the sheet metal in which it may be placed.

The clamp has a hole 5 near its middle, through which a bolt 6 may pass, the bolt also passing through a hole 7 in the crown of the corrugation so placed that when the nut 8 on the bolt is screwed up under the clamp, the same will swing on its upturned, curved end 4 as a fulcrum and press against the under side of the flange on the beam 2, thereby clamping the metal sheet 1 firmly down on the beam 2.

The curved end 4 of the clamp forms an equally good fulcrum for the clamping action, whether the corrugation in which it is seated is relatively deep or shallow, and whether the flange of the cross beam 2 is thick or thin,—within the limits of ordinary structural iron forms. Consequently the clamp is capable of universal use in roofs of the character described, or in sidings.

Having described my invention, I claim:

1. As a new article of manufacture, a clamp for holding corrugated sheets to a roof structure, or the like, which consists of a strip of metal perforated near its middle to receive a supporting bolt and bent upward in circular form at one end, the upper face of the upturned portion of the strip approximately conforming in cross section to the curvature of the under side of a corrugation in the sheet against which the clamp is designed to bear, when a bolt passed through the crown of the corrugation and through the perforation in the clamp is screwed up to force the other end of the clamp against the surface of a supporting beam.

2. In an apparatus for holding a sheet of material having curved surfaces, to a supporting beam, the combination of a strip of stiff material having a flat bearing surface at one end and a bearing surface at the other end curved in a plane extending longitudinally of the strip and perpendicular to said bearing surface, with fastening means engaging the strip intermediate of its ends.

CLARENCE CARSON.

Witnesses:
JOSEPH NEWMAN,
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