E. K. DAY.

STRUCTURAL MEMBER.

APPLICATION FILED OCT. 27, 1915.

1,204,955. Patented Nov. 14, 1916.

Fig. 1

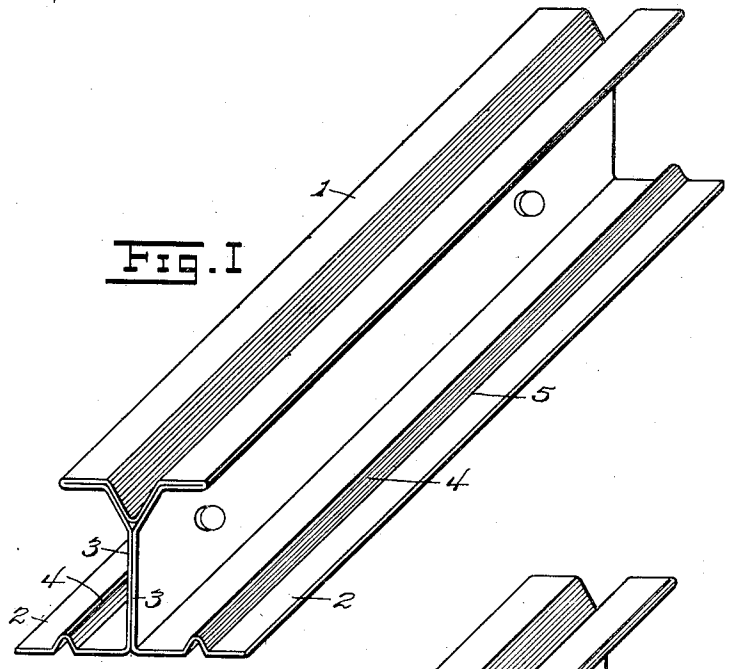


Fig. 2

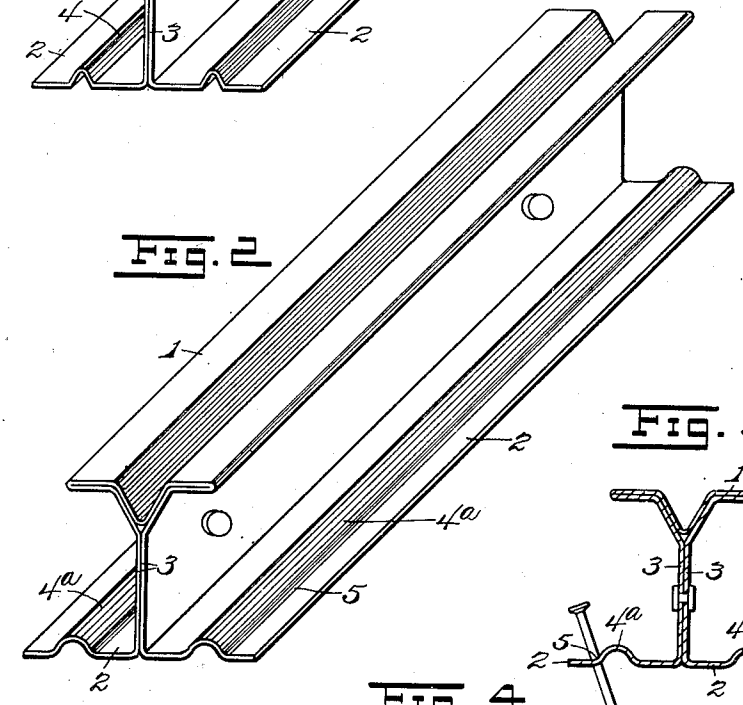
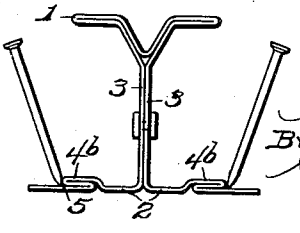


Fig. 3

Fig. 4



WITNESSES

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STRUCTURAL MEMBER.

1,204,955. Specification of Letters Patent. Patented Nov. 14, 1916.

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To all whom it may concern:

Be it known that I, EDGAR K. DAY, a citizen of the United States of America, and resident of Wheeling, county of Ohio, and State of West Virginia, have invented certain new and useful Improvements in Structural Members, of which the following is a specification.

This invention relates broadly to sheet-metal structural members, and specifically to a sheet metal member of that character employed as furring strips and the like.

The primary object of the invention is to provide a structural member designed for attachment to joists, studding, beams, and the like and adapted to have other members, as metal ceiling plates, rigidly attached thereto by means of nails.

A further object is to provide a device of the character described the base members of which are provided on their upper or nailing surfaces with longitudinally extending ribs or elevations against which the points of nails may seat for facilitating the driving of the latter.

In describing the invention in detail, reference is herein had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a perspective view of an embodiment of my invention; Fig. 2 is a similar view showing a modified form of rib; Fig. 3 is a section on the line 3—3, Fig. 2; and Fig. 4 is a similar section illustrating a plait constituting the nail-stop.

Referring to said drawings, 1 indicates the head, 2 the oppositely disposed base portions, and 3 the parallel contacting web portions of a structural member which is composed of sheet metal, preferably in a single piece. Much trouble has hitherto been experienced in attaching the base portions 2 to joists, beams, and the like, due to the fact that the head 1 overlies said base portions so closely that it is practically impossible to drive nails through said base portions at a right angle to the latter without striking the overlying head with the driving hammer. It is usual therefore to incline the nails somewhat so that the driving strokes may be delivered at such an inclination or angle to the web portions 3 that the hammer will not engage the head 1. When so inclined much difficulty is experienced in entering the nails at the desired points due to the fact that the points of the nails have a decided tendency to slide over said base portions toward the web portions under the impact of the driving stroke rather than to perforate said base portions at the point where the nail is held.

In order to obviate the difficulty mentioned, an upwardly extending seam or abutment is formed in each of the base portions 2 parallel to and at a spaced distance from the web portions 3. Said abutment may be made in the form of an upwardly pressed rib 4, as shown in Fig. 1, in the form of an upwardly pressed corrugation 4^a, as shown in Figs. 2 and 3, or in the form of an overlying plait, as shown at 4^b in Fig. 4. At the outer angle which the abutment forms with the flat base portion is constituted a seat 5 in which the points of nails may be introduced and from which said points do not tend to move when the nails are placed in inclined positions and subjected to driving strokes. The seams constituted by the ribs or plaits further serve to stiffen and strengthen the base portions of the structural member.

What is claimed is—

1. A sheet metal structural member comprising a head, oppositely disposed base portions and an intervening web, each of said base portions having a longitudinal upwardly projecting abutment formed therein parallel to and at a spaced distance from said web whereby is constituted a seat for the reception of the points of attaching nails.

2. A sheet-metal structural member comprising a head, oppositely disposed base portions, and an intervening web, each of said base portions having formed therein a longitudinally extending raised portion against which the points of attaching nails initially seat.

In testimony whereof, I affix my signature in presence of two subscribing witnesses.

EDGAR K. DAY.

Witnesses:
H. E. DUNLAP,
B. L. LEWIS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."