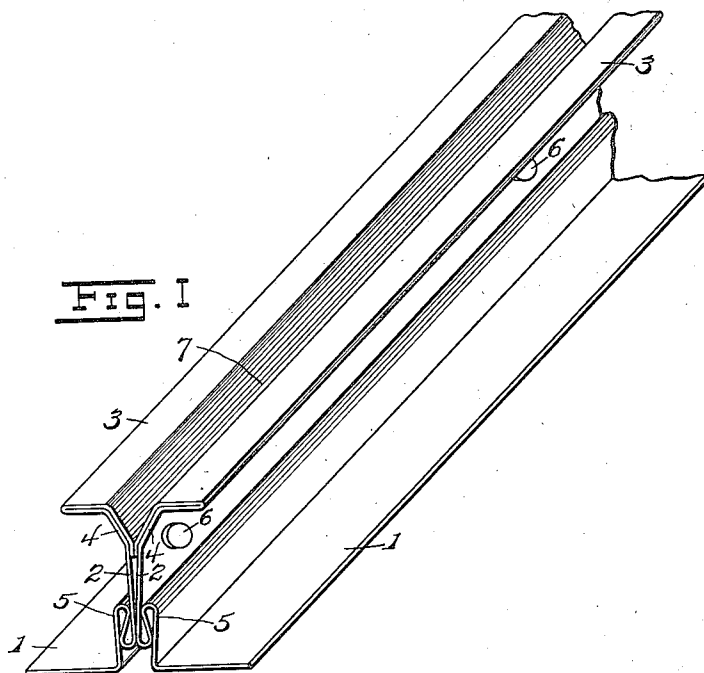
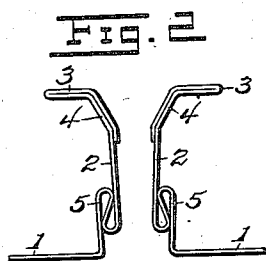
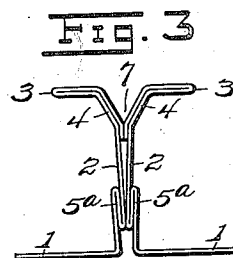


E. K. DAY.
 STRUCTURAL MEMBER.
 APPLICATION FILED OCT. 27, 1915.

Patented Jan. 30, 1917.

1,214,017.



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STRUCTURAL MEMBER.

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Specification of Letters Patent.

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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 more specifically to a metal beam or strip designed to be employed as a furring strip, or the like.

The primary object of the invention is to provide a structural member which is especially designed for use as a furring strip, being adapted to be secured to wooden joists, beams, studding and the like and to have ceiling plates, wall plates, flooring, or the like, nailed thereto.

A further object is to provide a sheet-metal structural member of the character mentioned which is possessed of unusual strength and rigidity.

With these and other objects in view, the invention resides in the features of construction which will hereinafter be fully described, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a perspective view of the invention; Fig. 2 is an end elevation of the two metal strips of which the invention is composed, the same being shown separated; and Fig. 3 is an end elevation of a slightly modified form of the invention.

The device composing the invention comprises two similar sheet metal strips adapted to be rigidly secured together by any suitable means, as by rivets. Each strip comprises a horizontal base portion 1, a substantially vertical web portion 2 and a horizontal head portion 3, said web portion being intermediate said base portion and said head portion. Said head is supported upon a leg portion 4 which is inclined outward and upward at an angle to the web portion 2. Said head and leg portions are formed of a double thickness of metal, the strip being doubled

back upon itself from the lateral edge of the head portion and having its edge terminating adjacent to or slightly below the angle formed at the juncture of the leg with the web. When the two strips are secured together the portions of the web members adjacent to the folds closely abut against each other and form a yieldable joint in which the points of nails driven between the strips are received and yieldingly gripped.

A longitudinal plait or fold 5 is formed in the web portion 2 for stiffening or strengthening said web portion. In forming said plait the metal is flexed and reflexed upon itself either in the open loop-like manner illustrated at 5 in Figs. 1 and 2 or in the close-pressed manner shown at 5^a in Fig. 3. Said plait is preferably formed slightly below the middle of the web, as shown.

The two strips of metal are secured together web to web, as by means of rivets 6 directed through the web portions above the plaits 5. The two leg portions 4 meet at their lower ends and then divergently incline outward to constitute a longitudinal V-shaped groove or channel 7. When, in attaching plates or the like to the member, nails are directed into said groove or channel 7, said nails are guided by the walls of the latter into the interstice between the webs, and, penetrating between said webs, are firmly gripped by the latter.

What is claimed is—

1. A structural member composed of sheet-metal consisting of a base, a horizontal head, and a substantially vertical web, said web being composed of two thicknesses of metal each of which is flexed and reflexed upon itself to form a longitudinal fold, said two thicknesses being secured together at points intermediate said fold and said head and forming a yieldable joint adjacent to the folds for yieldingly gripping nails driven between said two thicknesses.

2. A structural member composed of sheet-metal and consisting of a head, a base, and a web connecting said head and said base, said web being composed of two at-

tached members disposed back to back, each web being flexed and reflexed upon itself to form a longitudinal plait intermediate its head and base portions, said plaits being disposed in abutting relation to the outer faces of said members for reinforcing the latter, said members being in engagement adjacent to said plait and forming a joint in which

the points of nails driven between said members are yieldingly gripped.

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

EDGAR K. DAY.

Witnesses:

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