

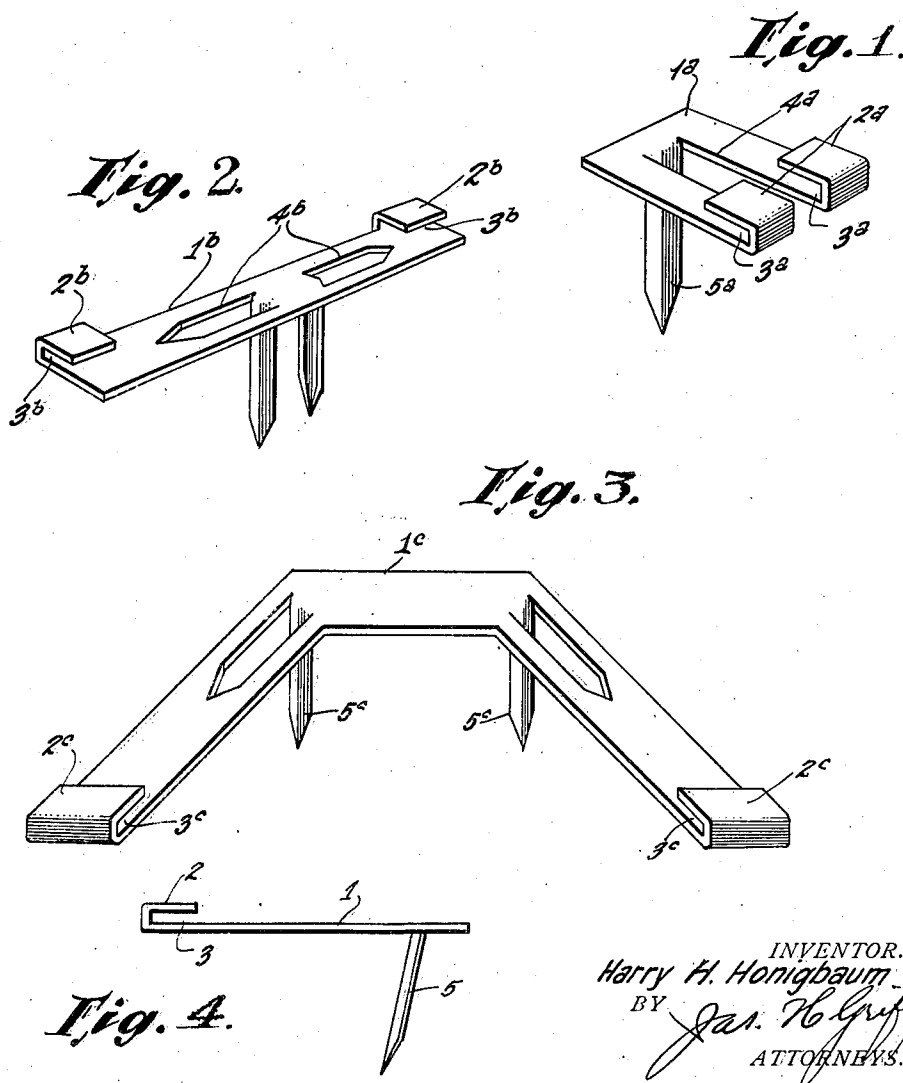
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RETAINER FOR COMPOSITION ROOFING

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RETAINER FOR COMPOSITION ROOFING.

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The invention is a new article of manufacture intended, more particularly, as a retainer for composition roofing, either roll roofing or strip shingle.

5 The present invention provides a simple, economical retainer, adapted to be easily applied to a roof and adapted, when in place thereon, to preclude the flapping or curling of the strip shingles or roll roofing which constitutes the roof covering.

Devices for this general use have been heretofore suggested but, for various fully sufficient reasons have not been found practical.

15 The object of this invention is to provide a thoroughly practical retainer and one which will be acceptable to the trade.

With these considerations in mind, the present invention consists of a sheet metal stamping. In its preferred form, it comprises a body portion or plate provided with fingers returned upon themselves to form hook-shaped portions or keepers, and from the material which forms the body portion, 25 a tapering or pointed spike portion or tongue is stamped out and bent into, angular relation to the body portion, the said spike portion or tongue being disposed in a plane between the said keepers so as to better hold the shingle in place on the roof.

It is of importance that the spike portion extend from the body portion, interiorly of the edge of such portion, so that there is an appreciable extension of the body portion beyond the base of the spike portion in all directions. Thus the body portion forms, in effect, the head of the spike portion and the said extension not only facilitates driving of the spike portion, but also 40 overcomes the tendency of the device to bend at the junction of the body and spike portions, as would be the case if the spike portion were positioned at the very edge of the body portion.

45 It is of further importance that during the manufacture of the device, the spike portion is manipulated in a forming die to channel or crimp this portion longitudinally so that it is transversely substantially V shaped or U shaped. This operation materially strengthens the spike portion against bending during the driving operation.

55 All of these features unite to provide a unitary structure which is easily attached and thoroughly efficient in the performance of its intended functions.

Features of the invention, other than those specified, will be apparent from the hereinafter detailed description and claims, when read in conjunction with the accompanying drawings.

The accompanying drawings illustrate different practical embodiments of the invention, but the constructions therein shown are to be understood as illustrative, only, 65 and not as defining the limits of the invention.

Figures 1 to 3, inclusive, are perspective views showing different forms of the invention; and, 70

Figure 4 is a side elevation of a retainer but having a spike portion positioned at an acute angle with respect to the body portion of the retainer.

Referring first to Figures 1 and 4, 1^a is a 75 sheet metal plate or body portion provided at one end at each edge with a finger 2^a, returned upon itself to form a keeper having a re-entrant recess 3^a into which the edge of a shingle or roll roofing is adapted to be 80 received. Portions of the body of the plate are stamped out, as shown at 4^a, to provide a tapering or pointed finger or spike portion 5^a, which may extend in right angular relation to the plate 1^a, as shown in Figure 85 1, or in acute angular relation thereto, as shown in Figure 4.

The entire article is integrally formed from sheet metal, manipulated in suitable cutting and forming dies, and, during the 90 forming operation, the spike portions 5^a are longitudinally channeled. In this operation, the cross section is preferably made of either V or U shape, so as to render the spike portions sufficiently rigid to permit of their 95 being driven into a roof without bending.

Moreover, I have found in practice that, by thus forming the spike portions, they will drive easier and will hold tighter, than if they are transversely flat. 100

In Figure 1 a single spike portion 5^a is cut from the plate 1^a, and the cut out 4^a is extended to the edge of the plate, so that when the end of the plate is returned upon itself to form the re-entrant recess there will be two 105 spaced fingers 2^a and two alined recesses 3^a.

In Figure 2, the plate 1^b is shown as stamped out at 4^b to form the spike portions 5^b and spaced fingers 2^b are formed along one longitudinal edge of said plate. 110

In Figure 3, the plate 1^c is in the form of a strip, successive longitudinal parts

of which are out of alinement. The spike portions 5^c are stamped out of the body of the plate in the same manner as hereinbefore explained, and the ends of the plate are returned upon themselves to constitute the fingers 2^c forming the re-entrant recesses 3^c.

The foregoing embodiments of the invention are illustrative of many numerous forms of which the invention is susceptible. In every case, however, the underlying construction is the same; that is to say, the spike portions 5^a, 5^b and 5^c are stamped out of the associated plates 1^a, 2^b and 3^c, respectively, inwardly of the edges or margins of said plate. This is highly important for the reasons hereinbefore stated. Moreover, in every case, the plate is provided with a finger forming a re-entrant recess adapted to receive the roofing material. Furthermore, in every case, the spike portions are longitudinally channeled for the purposes stated.

When using the device as a shingle retainer, it is brought into the position desired and the spike portion driven into the roof, generally through a shingle or strip of roofing. In this manner, the retainer is rigidly secured to the roof in position to cooperate with roofing of the next course. The device is thus easily and expeditiously fixed in position.

The invention is simple in construction and can be made by automatic machinery in an economical, expeditious and efficient manner. In practice, the plate or body portion of the retainer may be of any suitable shape and the spike portion can be positioned at an appropriate angle, without departing from the spirit and scope of the invention, which is commensurate with the appended claims.

The invention has, for the purpose of illustration, been described as a shingle retainer, but it will be understood that it is adapted for general application in the various arts.

Having thus fully described the invention what I claim as new and desire to secure by Letters Patent is:

1. A device of the character described, comprising a sheet metal body portion, spaced-apart keepers on the body portion and forming re-entrant recesses, and a spike portion stamped from the body portion and bent into angular relation thereto, said spike portion extending from the body portion between and out of longitudinal alignment with said keepers.

2. A device of the character described comprising a sheet metal body portion, hook-shaped keepers integral with the body portion and forming re-entrant recesses adapted to receive a portion of a shingle, and spike portions stamped from within the confines of the body portion and bent into angular relation to said body portion, said spike portions being between and out of longitudinal alignment with the said keepers.

3. A device of the character described, comprising a sheet metal body portion, hooked-shaped keepers integral with the body portion and forming re-entrant recesses adapted to receive a portion of a shingle, said keepers being spaced apart, and spike portions stamped from within the confines of the body portion and between and out of longitudinal alignment with the said keepers, the said spike portions being of angular cross section.

In testimony whereof I have signed the foregoing specification.

HARRY H. HONIGBAUM.