March 25, 1930. D. STINGER 1,751,562

SHINGLE STRIPPER

Filed Oct. 22, 1925

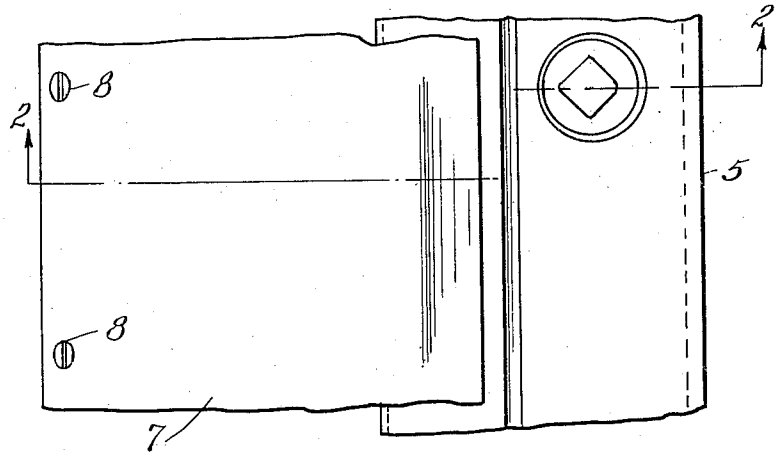


Fig. 2.

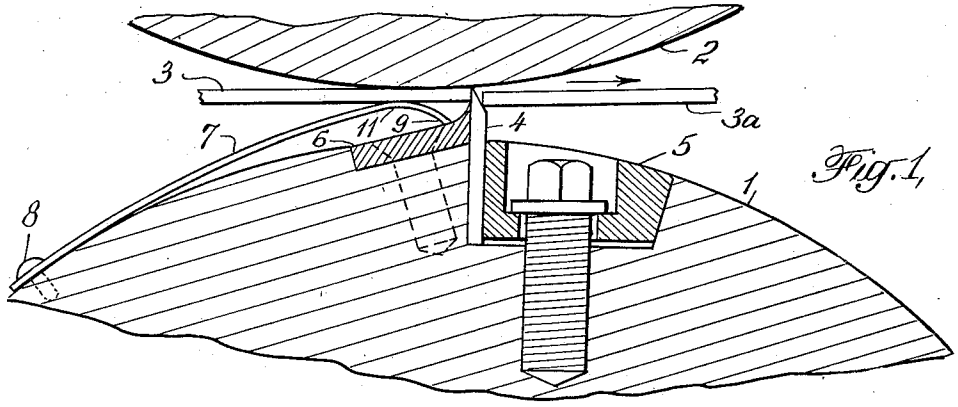


Fig. 1.

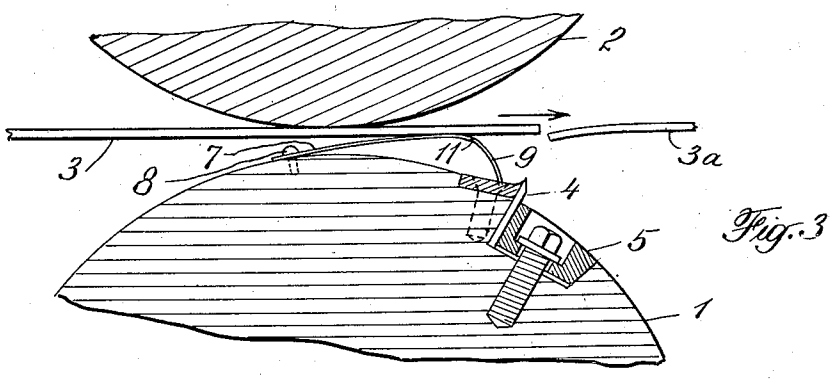


Fig. 3

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UNITED STATES PATENT OFFICE

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SHINGLE STRIPPER

Application filed October 22, 1925. Serial No. 64,081.

This invention relates to shingle strippers and more particularly to a new and useful type which is secured to the cutting roll.

A common method of cutting roofing elements is by passing the prepared strip of roofing between two rolls, one of which is a cutting roll (as shown in the accompanying drawing). As the cutting roll rotates and the knife severs the roofing element the roofing material tends to adhere to the knife or cutting roll because of the sticky nature of the material used for impregnating the roofing felt and because of the fact that the shingle becomes jammed between adjacent knives.

Various forms of strippers have been devised for ejecting or forcing the roofing element away from the knife so as not to follow the roll, but all of those of which the applicant is aware are too complicated to be practicable, become gummed up and inoperative and have to be cleaned or discarded.

It is, therefore, among the objects of my invention to provide a shingle stripper which is simple and efficient in operation, automatic, durable and which does not require any attention from the operator of the machine.

The nature of this invention will be more clearly understood from the following description and accompanying drawings made a part hereof.

In the drawings in which like reference characters refer to like parts,

Fig. 1 is a section of a cutting and platten roll of a shingle cutting machine showing the application of my invention thereto,

Fig. 2 is a plan view of the cutting roll showing the shingle stripper under compression,

Fig. 3 is a view similar to Fig. 1 and shows the stripper in a position where it has regained its normal position.

The rolls (1) and (2) operate synchronously, rotating in the direction of the arrow, and have passed therebetween a strip of roofing material (3). In a recess in the cutting roll (1) is suitably located the knife (4) which is held in place by the wedge block (5), the knife being reinforced by the back stop (6).

The stripper (7) which is substantially arcuate in form and preferably of substantially the same width as the knife (4) is constructed of such resilient material as spring steel and is secured to the peripheral surface of the roll (1) in the rear of the knife (4) by means of screws (8) which are threaded into the roll. The forward portion (9) of the stripper bears upon the back stop (6) or in the absence of such back stop bears directly upon roll (1) and is so shaped that in its natural unflexed position the uppermost portion (11) protrudes beyond a circle (which has the center of the roll as its center) drawn thru the edge of the knife (4).

As the rolls rotate in the direction indicated and as the knife (4) passes a line drawn from center to center of the rolls, the strip of roofing material (3) is severed in conformity with the predetermined arrangement of the knife or knives. As the rolls further advance, as shown by Fig. 3, the uppermost portion (11) of the stripper (7) bearing against the material (3) is compressed until the center line of the rolls has been passed thereby, whereupon the stripper resumes its normal position forcing the cut portion of the roofing material away from the knife. The severed shingles 3^a are taken up by a travelling web (not shown) and conveyed to packing and storage.

It is obvious that the applicant has invented a very useful, durable and efficient means for facilitating the cutting of shingles by the automatic and positive removal thereof from the knives, and that shingles will not adhere to the cutting roll or knives when this invention is used.

What I claim as my invention and desire to be secured by Letters Patent of the United States is:

1. In combination a roll, a knife protruding substantially radially from the surface of said roll and a resilient strip-like member secured to the roll at that end of the strip which is the more remote from the knife, and having an intermediate portion which is nor-

mally at a greater radial distance from the surface of the roll than is the knife edge.

2. In combination a roll, a knife protruding substantially radially from the peripheral surface of said roll and a resilient substantially arcuate strip-like member secured at one end to the roll and having its other end contacting with the roll and having an intermediate arcuate portion which is normally at a greater radial distance from the surface of the roll than is the knife edge.

3. In combination, a roll, a knife protruding substantially radially from the surface of said roll and a resilient strip of flat material substantially arcuate in form having one end portion bent inwardly, adapted to contact at said end with the peripheral surface of the cutting roll, and having the other end secured to the said cutting roll.

4. In combination a roll, a knife protruding substantially radially from the peripheral surface of said roll and a resilient substantially arcuate strip-like member secured to said roll upon the peripheral face thereof by fastening means located adjacent that edge of the strip which is the more remote from the knife and having its other edge slidably contacting with the peripheral face of said roll at a point adjacent the knife, the intermediate arcuate portion of the strip being normally at a greater radial distance from the peripheral face of the roll than is the knife edge.

In testimony whereof I affix my signature.

DANIEL STINGER.