

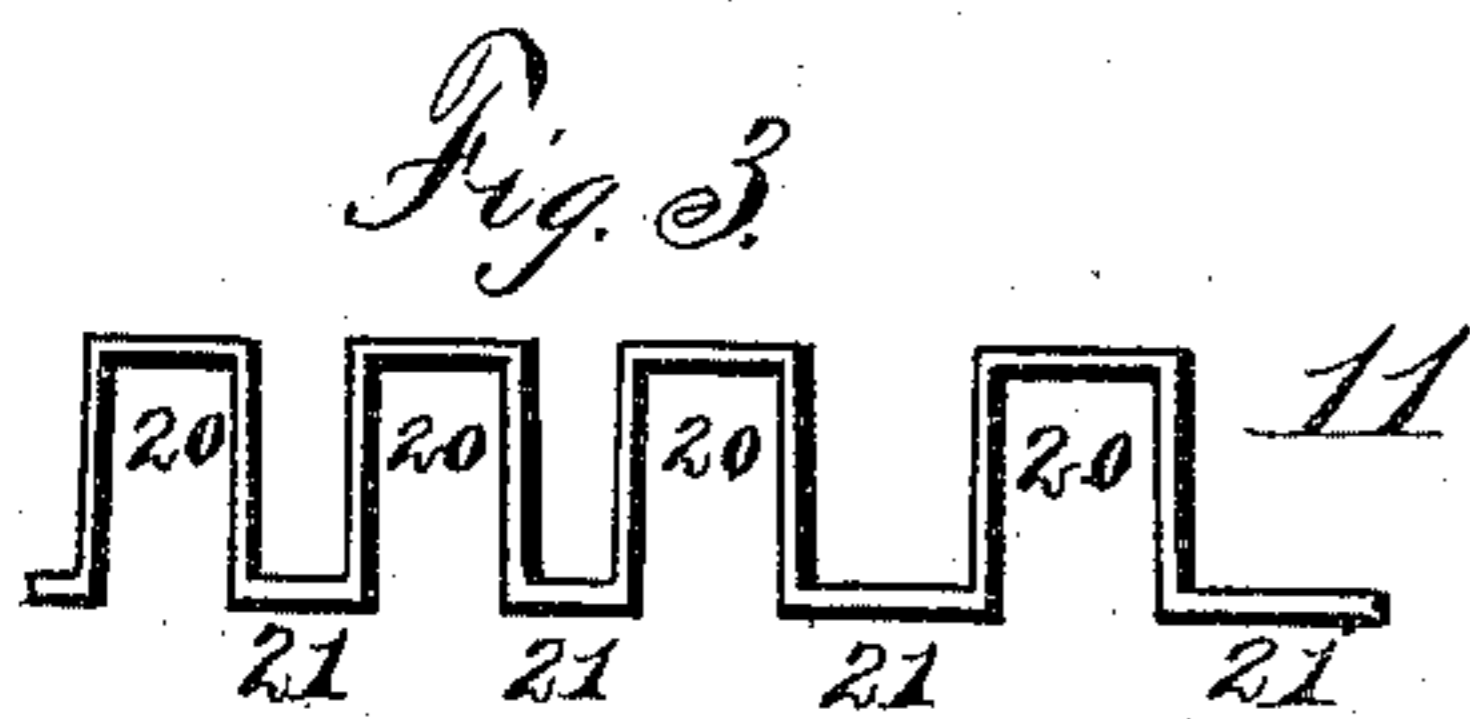
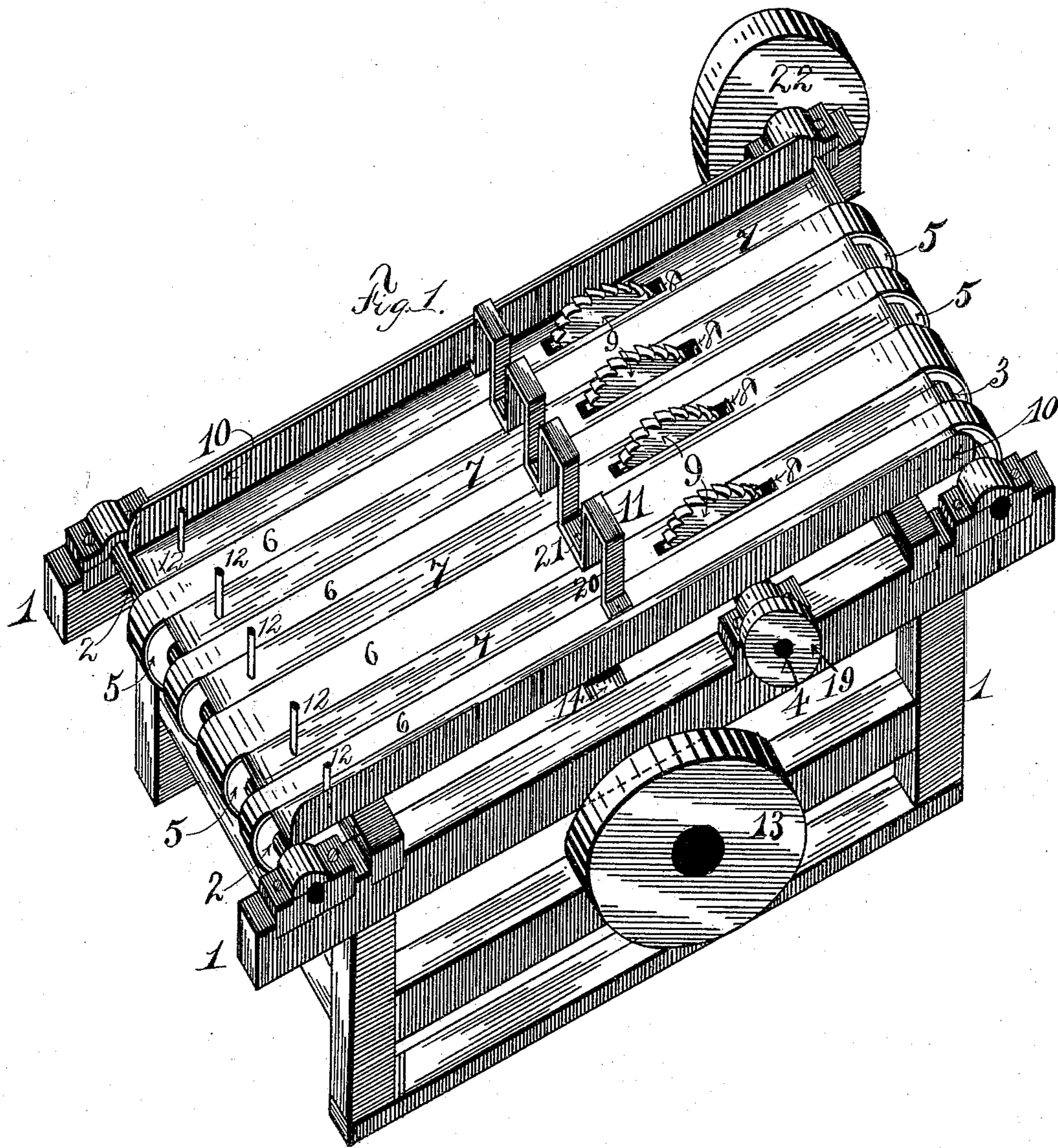
(No Model.)

J. N. SEARS.

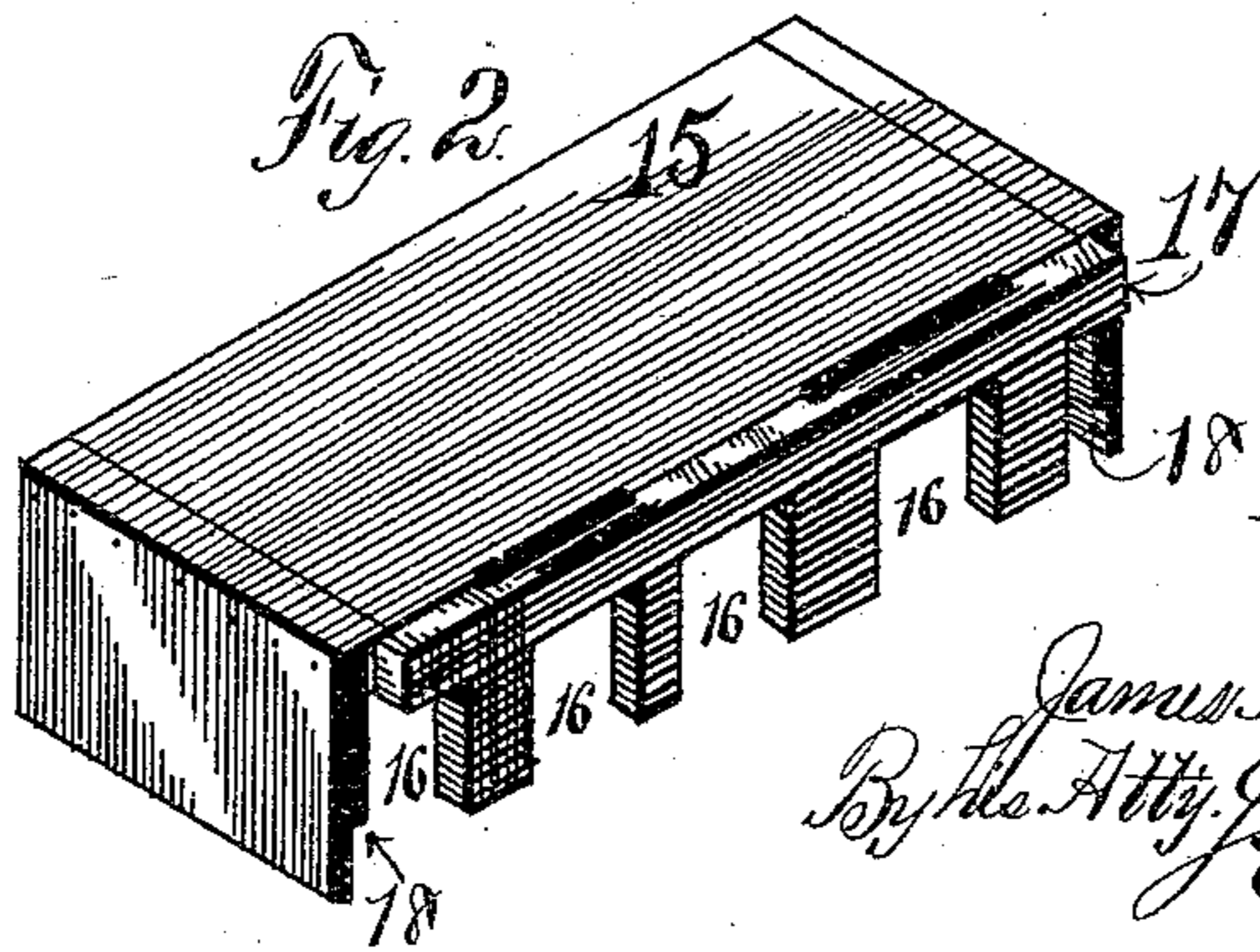
ATTACHMENT FOR SHINGLE MACHINES FOR EDGING SHINGLES.

No. 335,635.

Patented Feb. 9, 1886.



Witnesses.
J. B. Norton, Engineer.
S. B. Smith.



Inventor.
James N. Sears.
By the Atty. J. B. Duffie

UNITED STATES PATENT OFFICE.

JAMES N. SEARS, OF GALLOWAY STATION, ARKANSAS.

ATTACHMENT FOR SHINGLE-MACHINES FOR EDGING SHINGLES.

SPECIFICATION forming part of Letters Patent No. 335,635, dated February 9, 1886.

Application filed November 30, 1885. Serial No. 184,300. (No model.)

To all whom it may concern:

Be it known that I, JAMES N. SEARS, a citizen of the United States, residing at Galloway Station, in the county of Pulaski and State of Arkansas, have invented a certain new and useful Attachment to Shingle-Machines for Edging Shingles; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention has relation to attachments to machines for sawing shingles, and is for the purpose of cutting the same any width desired, the novelty of its construction and arrangement as claimed being hereinafter fully set forth in the claims.

In the accompanying drawings, Figure 1 is a perspective view of my invention. Fig. 2 is a perspective view of the box or cover for the saws. Fig. 3 is an edge view of the carrier.

My invention is described as follows: On a frame, 1, I journal three shafts, 2, 3, and 4, one on either end of said frame, and the other (shaft 4) a short distance from the forward end. On shafts 2 and 3 I secure pulleys 5, any number desired, and space them any distance apart, according to the various widths into which it is desired to have the shingles cut. Over each pulley is run an endless belt, 6, chains, or equivalent device, varying in width according to the width of the pulleys over which it runs. Between the said belts and secured to the frame 1 are spacing-boards 7, which may all be the same width, or they may also be made of various widths. In the spacing-strips are cut slots 8, through which run the upper part of the saws 9, which are designed to cut the shingles. On the outer edge of each of the right-and-left-hand spacing-strips I secure a board, 10, lengthwise of said strips, and having its width perpendicular thereto, thereby forming a guard to prevent the shingles from flying off and getting into the gearing of the machine. On the shaft 4 I secure the saws 9 in such position that they will correspond to the slots 8 in the spacing-strips 7, and run through the same

without friction. On the belts 6 I securely fasten, by rivets or otherwise, carriers 11, using as many of them as may be deemed necessary, according to the length of the machine or belts. These carriers are made both wide and high enough to freely pass the saws 9, as the said carriers are moved around by the belts. The said carrier (see Fig. 1) is made of one continuous strip of metal or other material, the outer ends of which are fastened to the outer belts. The arches 20 are then formed in the strip high and wide enough to pass over the saws 9. The intervening spaces 21 are secured to the intervening belts. I make a box or cover, 15, to fit over the saws 9, to prevent splinters and dust flying in the face of the operator, and also to prevent the shingles being tipped over the top of the saws when the teeth of the same first strike the end of said shingles. The sides of said box or cover are slotted, the slots 16 corresponding in width to the arches of the carriers, that they may pass through. The slotted side 17, which is placed toward the front end of the machine, is hinged to the top of the box. The said box or cover is made long enough to fit over the outside of the guards 10, and has a shoulder, 18, to rest upon cut in each of its end pieces. Near the rear end of each spacing-strip 7 I secure a pin or gage, 12. The propelling power is applied to the machine by a belt running over a pulley on the rear end of shaft 14, the saws 9 being run by a belt passing around pulleys 13 and 19, the belts and carriers being run by a belt or equivalent device passing over a pulley on the rear end of the shaft 4 and around pulley 22.

The operation of my machine is as follows: The operator stands at the rear end of the machine, where the pins 12 are fastened, and places the shingles with their thick ends against the said pins, and as the belts bring the carriers around they push the shingles toward the saws and along to the forward end, where they are thrown off cut into the proper widths.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of frame 1, spacing-strips 7, having slots 8, pins 12, secured in the rear ends of said strips, saws 9, secured on

shaft 4, belts 6, or equivalent device, working on pulleys 5, and carriers 11, secured to the said belts, all constructed and arranged substantially as shown and described, and for the purposes set forth.

2. In the shingle-machine attachment, as shown and described, the box or cover 15, having slotted sides 17, being hinged to the top of said box, and shoulders 18, substantially as shown and described.

3. In a shingle-machine attachment, as

shown and described, the carrier 11, having arches 20 and intervening parts 21, substantially as shown and described, and for the purposes set forth.

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

JAMES N. SEARS.

Witnesses:

W. F. HILL,

W. C. TUNNAL.