

No. 715,368.

Patented Dec. 9, 1902.

I. N. GRAHAM.

CUTTER BAR FOR HARVESTERS OR MOWERS.

(Application filed May 29, 1902.)

(No Model.)

FIG. 1

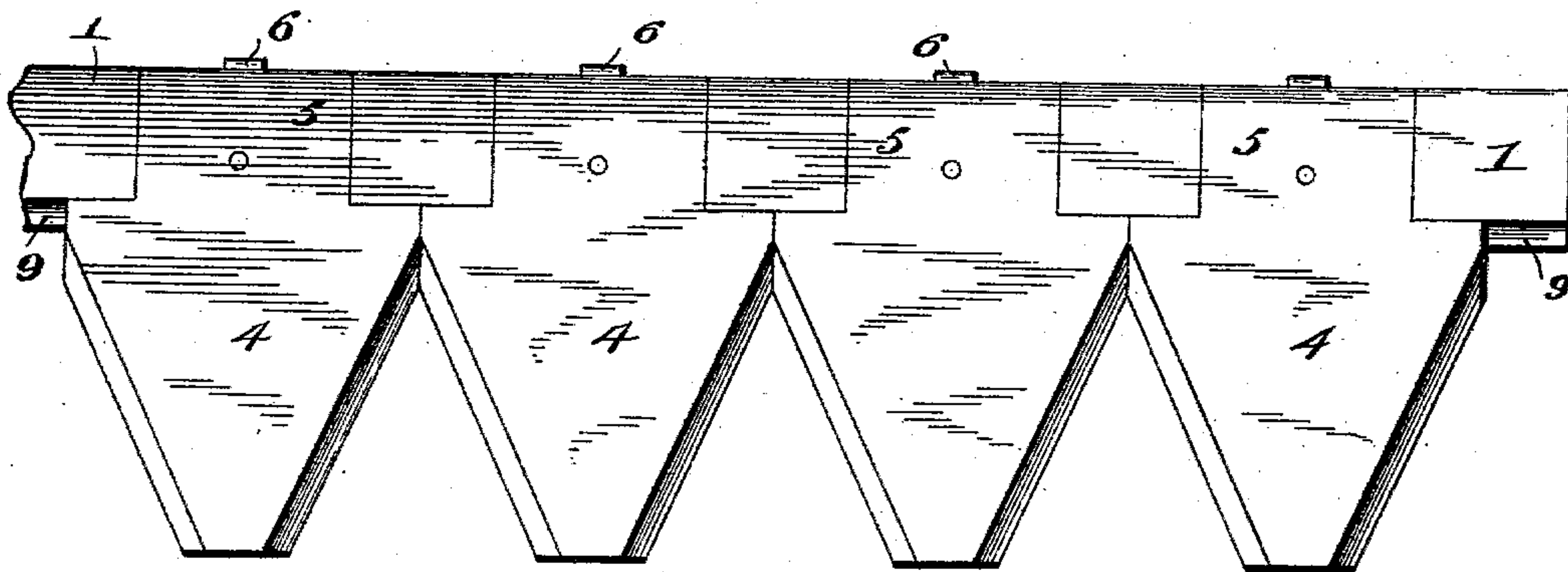


FIG. 2

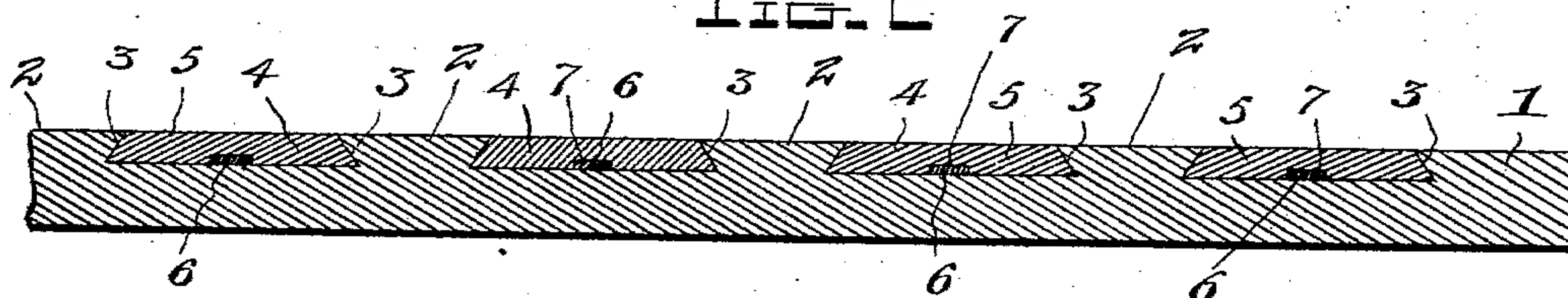


FIG. 3

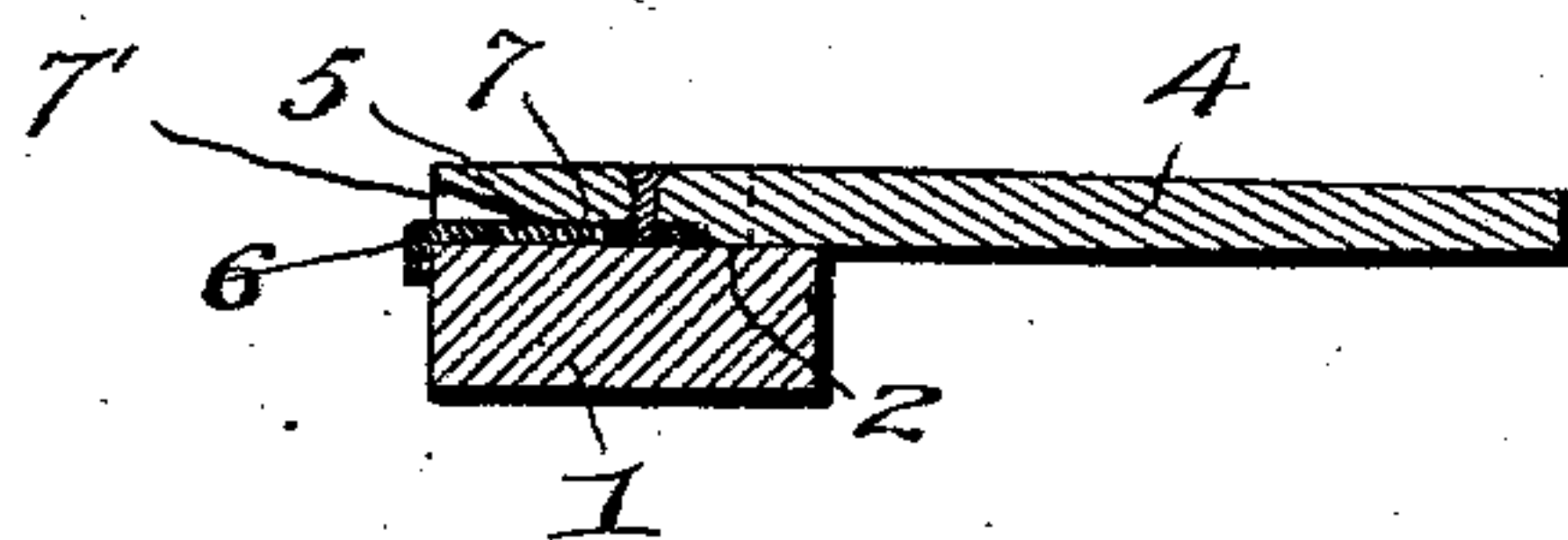
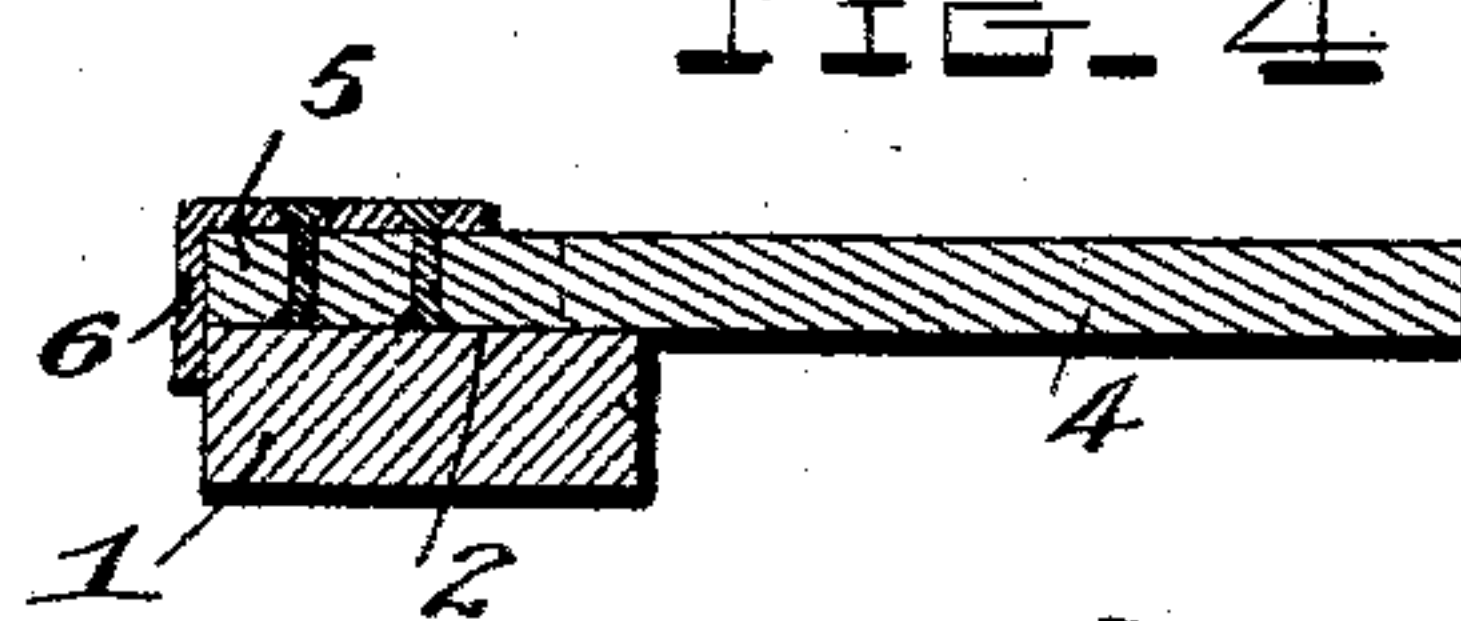


FIG. 4



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UNITED STATES PATENT OFFICE.

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CUTTER-BAR FOR HARVESTERS OR MOWERS.

SPECIFICATION forming part of Letters Patent No. 715,368, dated December 9, 1902.

Application filed May 29, 1902. Serial No. 109,490. (No model.)

To all whom it may concern:

Be it known that I, ISAAC N. GRAHAM, a citizen of the United States, residing at Deerfield, in the county of Augusta and State of Virginia, have invented certain new and useful Improvements in Cutter-Bars for Harvesters or Mowers; 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.

The invention relates to cutter-bars for harvesters or mowers.

The object of the invention is to provide novel means for connecting the sickles or blades to the bar, whereby the former may be separated from the latter at will for the purpose of replacing the bar with new sickles when occasion demands.

With the above and other objects in view, which will readily appear as the nature of the invention is better understood, said invention consists in certain novel features of construction and combination and arrangement of parts, which will be hereinafter fully described, defined in the appended claim, and illustrated in the accompanying drawings, in which—

Figure 1 is a top plan view of a fragment of a cutter-bar illustrating my invention. Fig. 2 is a longitudinal vertical sectional view. Fig. 3 is a cross-sectional view. Fig. 4 is a cross-section through a modified form of my invention.

In the drawings, 1 denotes the sickle-bar proper, which is provided throughout its length with a series of projections 2, the side walls of which are undercut, as shown at 3.

4 denotes the sickles or blades formed with shanks 5, which fit between the projections and are beveled to correspond to the slant of the undercut side walls of the projections to hold the blades in position against upward or downward displacement. Each blade or sickle is provided with a fastening device intended to hold the blade in position against forward displacement. Each fastening device preferably consists of a spring-catch 6, set into a recess 7, formed in the under side of the shank, and having one end riveted to said shank, or the spring may be riveted on

top of the bar, as shown in Fig. 4, and having its other end bent downwardly and adapted to engage the rear edge of the bar after the shank has been slipped into the recess. The recess 7 is enlarged at its rear by a beveled portion 7'. It will thus be seen that the blades or sickles are securely retained in position against accidental displacement and that by pressing upwardly the downturned end of the spring-fastener into the enlarged portion of the recess and drawing the sickle forwardly said sickle may be withdrawn from its engagement with the bar when worn or damaged for the purpose of replacing it with a new one.

From the foregoing description, taken in connection with the accompanying drawings, it is thought that the construction, mode of operation, and advantages of my improved cutter-bar will be readily apparent without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

A sickle-bar provided with projections each of which has undercut side walls, in combination with sickles provided with shanks fitting between the projections and having their edges beveled to correspond to the undercut walls and to fit the same, and fastening devices for holding the sickles in position against endwise movement, said fastening devices each consisting of an angular spring-plate one end of which is secured to the sickle and the other end of which projects downwardly into engagement with the rear edge of the bar, substantially as and for the purpose described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ISAAC N. GRAHAM.

Witnesses:

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