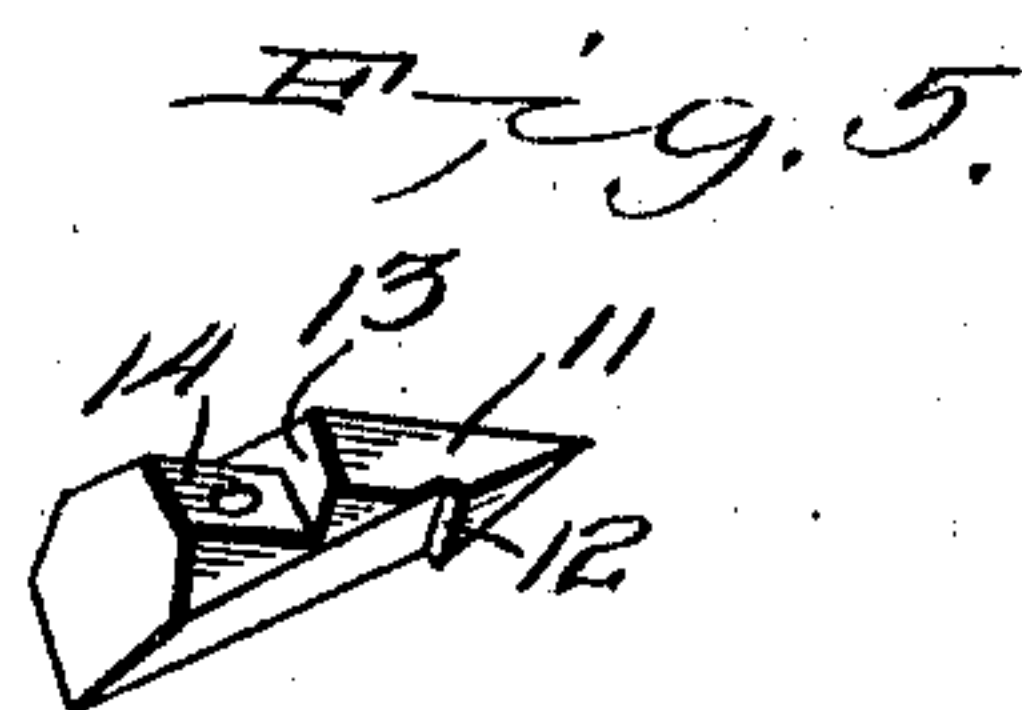
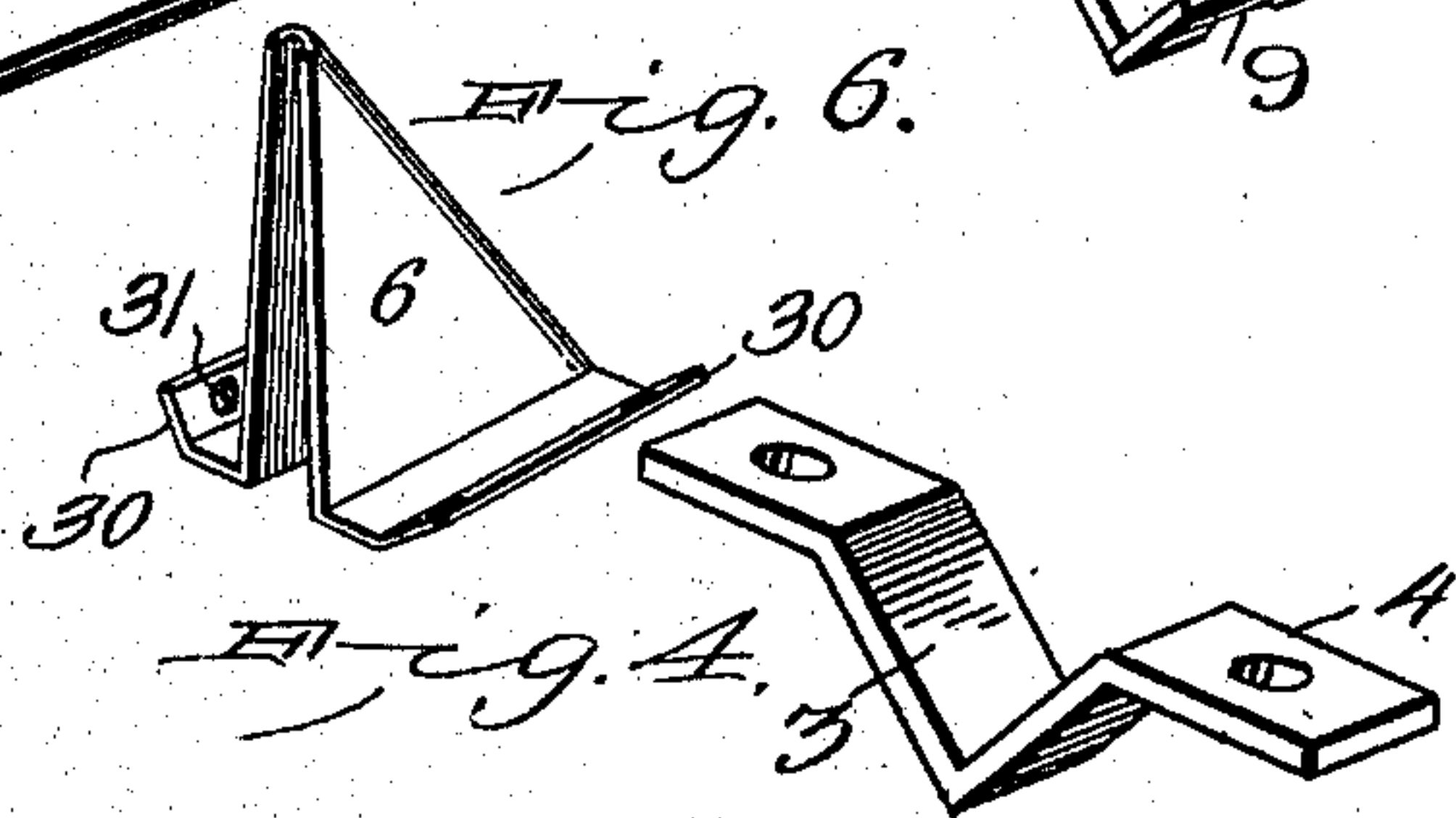
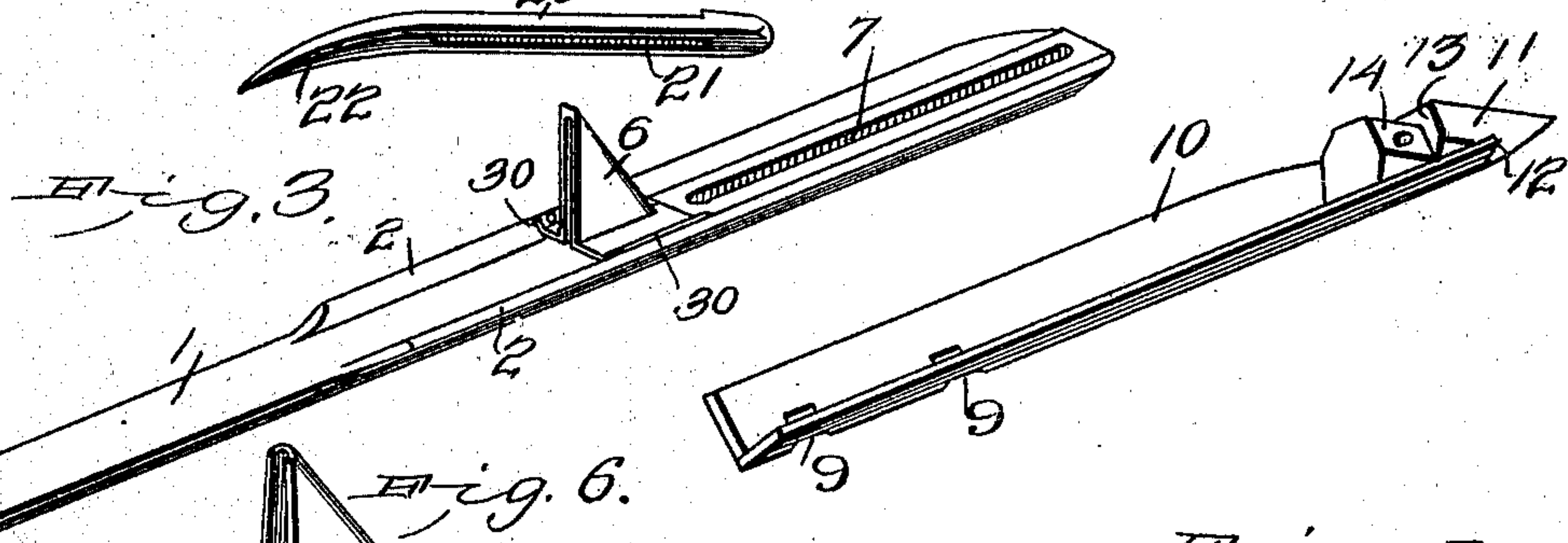
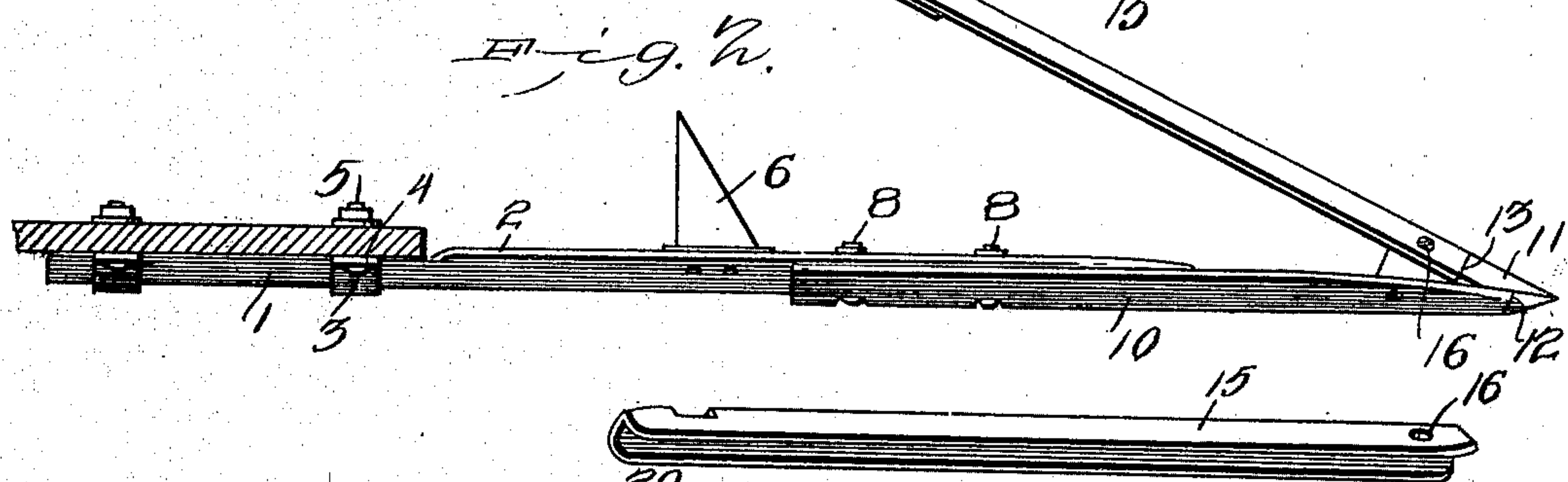
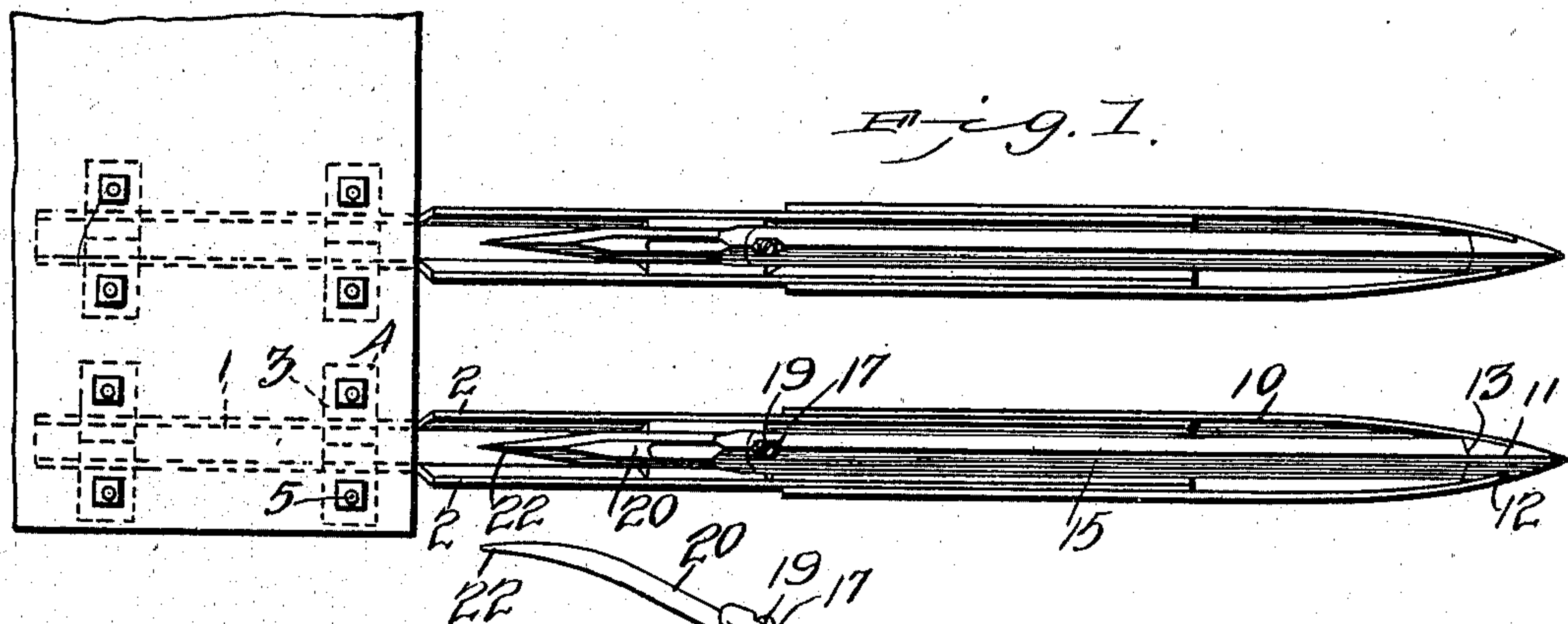


No. 723,084.

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G. F. VOLLBORN.  
ATTACHMENT FOR HARVESTERS.  
APPLICATION FILED AUG. 22, 1902.

NO MODEL.



Witnesses  
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Attorneys



# UNITED STATES PATENT OFFICE.

GUSTAV F. VOLLBORN, OF BRAMAN, OKLAHOMA TERRITORY.

## ATTACHMENT FOR HARVESTERS.

SPECIFICATION forming part of Letters Patent No. 723,084, dated March 17, 1903.

Application filed August 22, 1902. Serial No. 120,670. (No model.)

*To all whom it may concern:*

Be it known that I, GUSTAV F. VOLLBORN, a citizen of the United States, residing at Braman, in the county of Kay and Territory of Oklahoma, have invented a new and useful Attachment for Harvesters, of which the following is a specification.

This invention relates to an improved attachment for reapers, headers, and other harvesting-machines, having for its object to lift the fallen grain and carry it into the path of the cutting apparatus, thereby saving a large portion of the grain, which when machines of the ordinary construction are used is passed over and permitted to go to waste.

The invention consists in the improved construction and arrangement of the parts constituting the device, which will be hereinafter more fully described, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a top plan view of a portion of a harvester-platform, showing several of the improved attachments or grain-saving devices attached thereto in position for operation. Fig. 2 is a sectional elevation of the same. Fig. 3 is a detail view showing in perspective the four members which when put together constitute the improved device separated from each other. Fig. 4 is a perspective view illustrating the clamp by means of which the improved device is attached to the harvester-platform in position for operation. Fig. 5 is a detail view of the point of the device. Fig. 6 is an enlarged perspective detail view of the sickle-guard.

Corresponding parts in the several figures are indicated by similar numerals of reference.

1 designates the main supporting-bar, which forms a part of my improved attachment. This bar is mainly triangular in cross-section, as will be clearly seen in Fig. 3, and it is provided with flanges 2 2, extending laterally from its outer toward its inner end, which constitutes the point of attachment to the platform of the harvester, against which its upper flatside is squarely placed and secured by means of triangular brackets 3, having laterally-extending arms 4, perforated for the reception of the securing-bolts 5. A triangular sickle-guard 6 is disposed upon the sup-

porting-bar 1 a short distance in front of the platform.

The front end of the bar 1 is provided with a vertical slot 7 to receive a pair of adjusting-bolts 8 8, which extend through said slot and through corresponding openings 9 9 in a triangular trough-shaped extension 10, which engages the triangular underside of the supporting-bar and is secured thereto adjustably by means of the bolts 8. This trough-shaped extension 10 is provided at its outer end with a detachable point 11, which is preferably constructed of cast metal and is provided near its pointed front end with shoulders 12, forming points of abutment for the front end of the extension-trough 10. The point 11 is tapered in an upward and rearward direction, as will be seen clearly in Fig. 5, and it is provided on its upper side with shoulders 13, forming a seat 14 for the outer lower end of the return-guide 15, which is simply a triangular trough provided at one end with perforations 16 for the passage of the screws or other fastening means, whereby it is attached to the point 11 in the position clearly indicated in Fig. 2 of the drawings. At its upper rear end the trough 15 is provided with a recess 17, which surrounds a perforation formed therein for the passage of a bolt 18, the head of which, 19, is seated in the said recess. The bolt 18 serves for the securement of the extension-guide 20, which has a longitudinal slot 21 to permit it to be longitudinally adjustable. The said guide 20 has a downturned point 22 in order to enable the grain to be readily disengaged therefrom.

It will be seen that when the constituent parts of my device are put together, as shown, for instance, in Fig. 2, the supporting-arm 1 and its extension 10 extend a considerable distance in front of the platform and of the cutting apparatus, which latter has not, however, been shown in the drawings. The guiding means 15 and 20 being connected together, as shown, and secured to the seat 14, formed upon the point 15 of the device, will rise considerably above the front end of the platform and will thus serve not only to pick up the fallen grain and to convey the same to the cutting apparatus, but also to disentangle it and to maintain it in an approximately-upright position when it is presented to the cut-



ting apparatus, and causing it when severed to fall properly upon the platform, from whence it is conveyed in the usual manner to the binding apparatus when one is used.

5 Thus it will be seen that by my improved apparatus a large proportion of the grain is not merely saved from destruction, but is saved in a manner that renders it capable of being handled along with the standing and perfect  
10 grain.

The triangular sickle-guard, which in the foregoing description has been designated 6, is preferably constructed of heavy sheet metal, a suitably-shaped blank being bent to  
15 the approximately-triangular shape shown in the drawings, the base of the triangle being provided with laterally-extending wings or flanges 30, having bolt holes or perforations 31, whereby the said device may be secured  
20 in the position indicated in Figs. 2 and 3 of the drawings. This peculiarly-constructed sickle-guard will serve to prevent trash from lodging between the sickle-guard and the bar 1 next to the sickle-guard. The flanges or  
25 wings 30 are bent to fit the device between the flanges 2 2 of the bar 1, and the peculiar construction of this part of the invention is particularly simple and convenient.

Having thus described my invention, I  
30 claim and desire to secure by Letters Patent of the United States—

1. A grain-lifting attachment for harvesters comprising a supporting-bar triangular in cross-section and having upwardly-extending  
35 flanges for a portion of its length, a triangular trough connected adjustably with said supporting-bar, a point at the front end of said trough, and return-guides connected detachably with said point.

2. In a harvester, a platform, a supporting- 40 bar, triangular in cross-section and having upwardly-extending flanges, a sickle-guard mounted upon the upper side of said supporting-bar, and triangular supporting-brackets securing said supporting-bar detachably 45 to the under side of the platform.

3. The combination with a supporting-bar, of the triangular trough-shaped extension, a tapering point, shouldered to form an abutment for the front end of said trough and 50 having on its upper side additional shoulders forming a seat, and a triangular trough-shaped rearwardly-extending guide mounted upon said seat and connected detachably with the point. 55

4. A grain-lifting attachment for harvesters comprising a supporting-bar having an adjustable extension, a return-guide connected detachably with the point of said extension, and an extension connected adjust- 60 ably with the upper rear end of said return-guide.

5. In a grain-lifting attachment for harvesters, a supporting-bar provided with longitudinal flanges at the edges thereof, a sickle- 65 guard, approximately triangular, bent from sheet metal and provided at the base thereof with laterally-extending flanges bent to fit the supporting-bar and against the flanges of the latter, and suitable connecting means. 70

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

GUSTAV F. VOLLBORN.

Witnesses:

W. A. STOUGH,  
R. SHAUHOLTZER.