

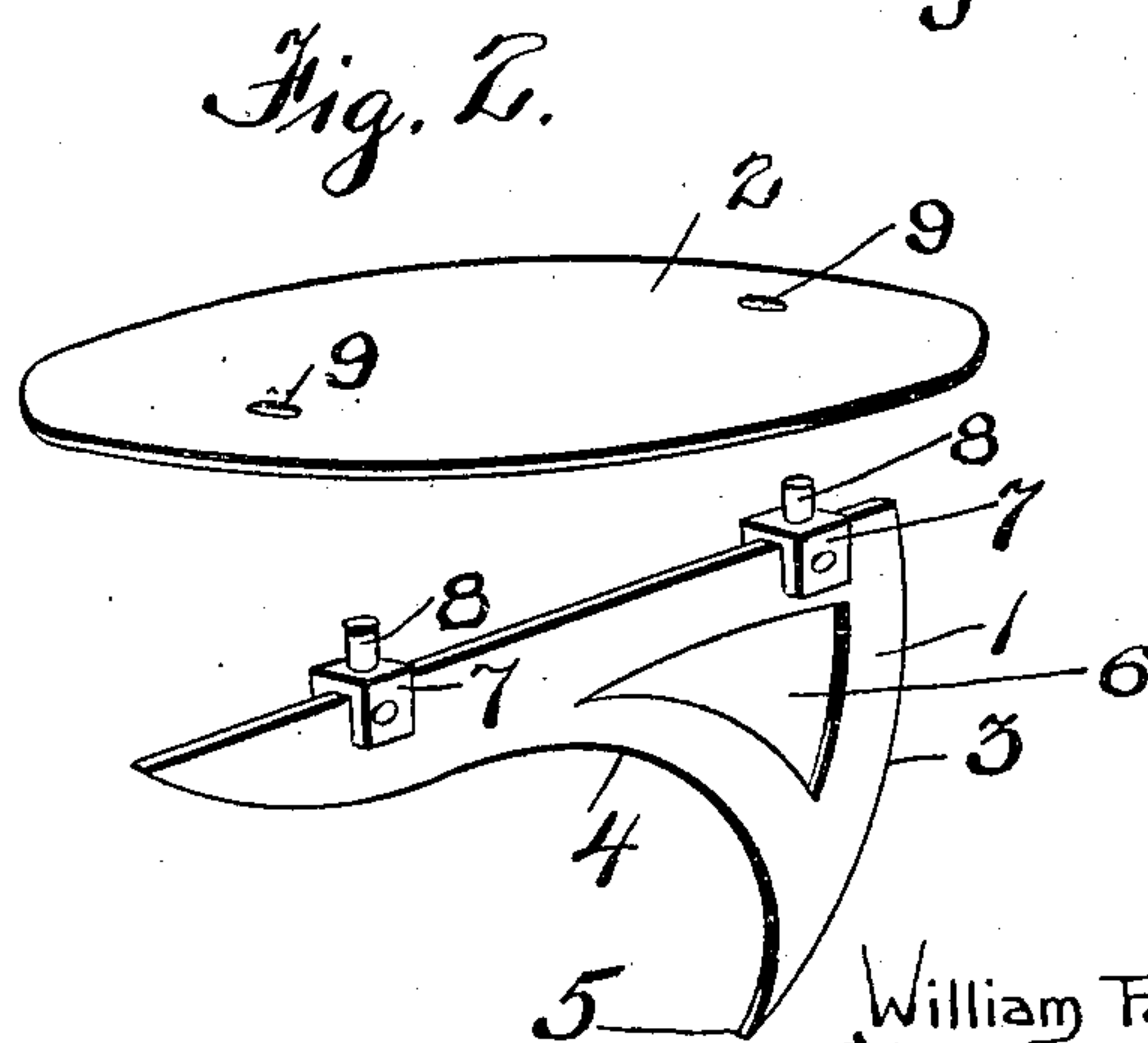
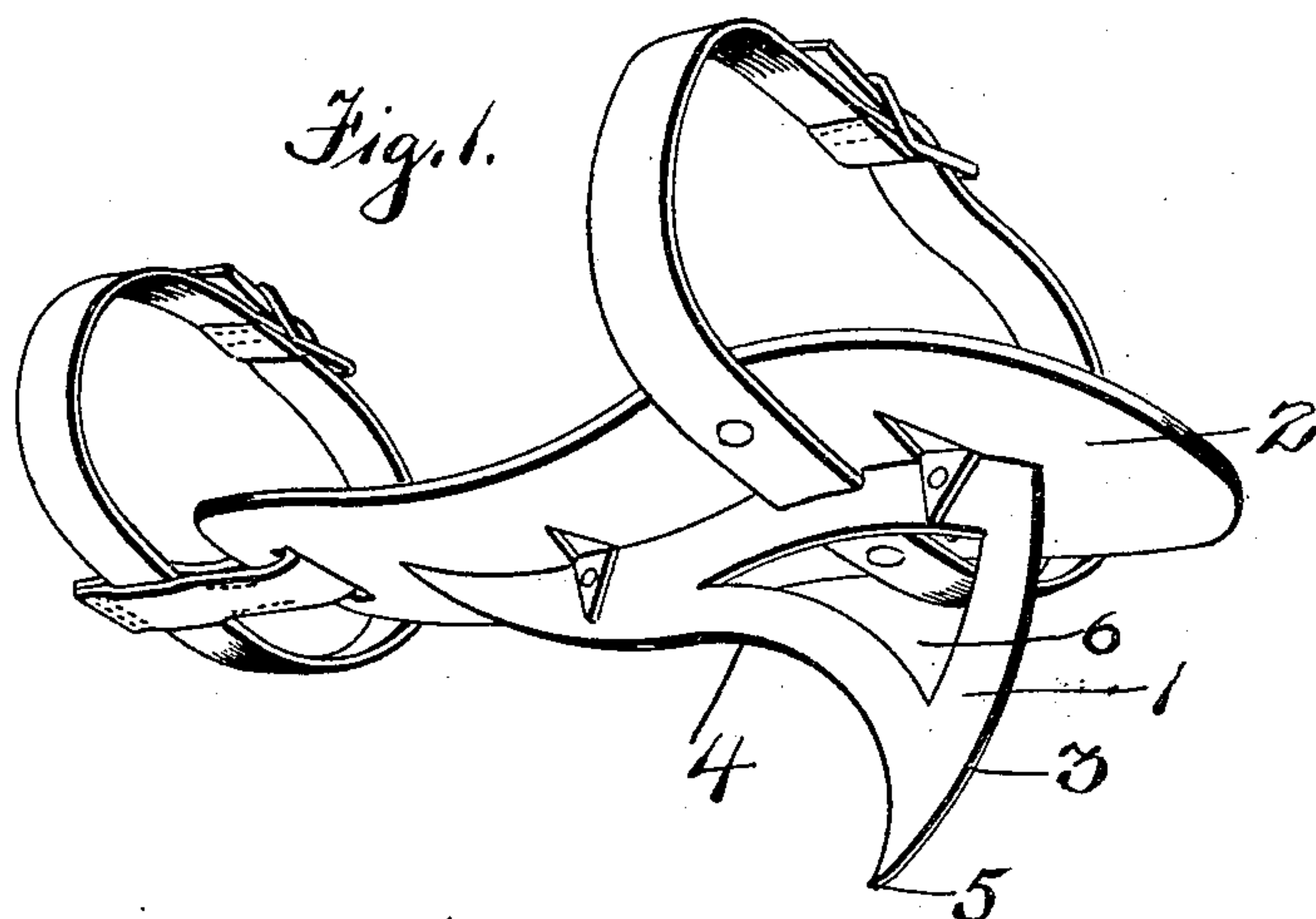
No. 640,817.

Patented Jan. 9, 1900.

W. P. RUNDLE & J. E. MASON.
BAND CUTTER.

(Application filed Mar. 29, 1899.)

(No Model.)



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM P. RUNDLE AND JAMES E. MASON, OF PORTAGE LA PRAIRIE,
CANADA.

BAND-CUTTER.

SPECIFICATION forming part of Letters Patent No. 640,817, dated January 9, 1900.

Application filed March 29, 1899. Serial No. 710,897. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM P. RUNDLE and JAMES E. MASON, subjects of Her Majesty the Queen of Great Britain, residing at Portage La Prairie, county of Portage La Prairie, Province of Manitoba, Canada, have invented certain new and useful Improvements in Band-Cutters; and we do hereby declare that the following is 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.

Our invention relates to improvements in band-cutters.

The object of our invention is to provide a device of this character which can be readily placed in position on the hand of the user or which may be readily attached to a glove placed on the hand of the user, the cutter being of such conformation as will allow of a ready severing of the band holding the grain-sheaf and which will also aid in the feeding of the sheaves to the threshing-machine.

A further object is to provide a construction of this character which is neat and attractive in appearance, durable in construction, simple and efficient in operation, and which can be made at a moderate cost.

To these and other ends our invention consists in the improved construction and combination of parts hereinafter fully described, and particularly pointed out in the appended claim.

In the accompanying drawings, forming a part of this specification and in which similar numerals of reference indicate similar parts in all of the views, Figure 1 is a perspective view showing our improved band-cutter when arranged to be inserted on the hand of the user. Fig. 2 is a detail of the plate and blade used when the device is adapted to be attached to the glove placed on the hand of the user.

In the placing of the grain-sheaves in position for threshing as now generally performed the feeder of the threshing-machine receives the grain with the bands already cut, suitable persons being provided for the purpose of cutting the encircling bands. As the handling of the grain a great many times has a tendency to open the grain-pod and allow of

the escape therefrom of the grain-kernels, it will be readily seen that such handling is disadvantageous both as to the loss of the grain itself and the necessity of employing persons to cut the band. It will be readily understood that if the feeder of the grain is provided with a suitable device or devices by means of which he is able to cut the band as he is drawing it toward the thresher or as he is feeding the grain into the thresher the tendency of losing a quantity of the grain is entirely eliminated, as is also the necessity for employing the band-cutters, thus saving the expense of such employment.

The present invention is designed to allow the grain-feeder to cut the band either as the sheaves of grain are placed on his feeding-table and as he is drawing them toward the threshing-cylinder or as he is passing the sheaves into the threshing-cylinder. In addition to this another advantage appears, caused by the peculiar conformation of the cutting-blade, which advantage consists in the fact that by the use of the blade shown the feeder is better able to draw the sheaf of grain or the loose grain toward him and to place it in position for threshing, he being entirely free from a compulsory grasping of the grain-sheaf by the hand, as is the practice at present.

It is to be understood, of course, that the feeder may have one or both hands provided with the cutters, the use of two cutters being preferable when the grain is being sent to him from both sides of the threshing-machine.

In order that a full understanding may be had of our invention, we will now refer to the drawings and describe the construction shown therein, as well as the operation, and point out such additional advantages as may be thought necessary.

The band-cutter consists, essentially, of the blade 1 and its securing-plate 2. The securing-plate 2 may be of suitable construction, two forms thereof being shown in the drawings, the form shown in Fig. 1 being intended to be removably secured on the hand or on a gloved hand, while the construction shown in Fig. 2 is such as will allow of the cutter being permanently secured to the feeder's glove, the plate 2 being secured on the inner

face thereof and adapted to contact with the palm of the hand. The blade 1 is formed, preferably, as shown in the drawings, having its front edge 3 curved, as shown, and preferably sharpened, the rear edge 4 being preferably sharpened and arranged concavo-convex, as shown at 4, the curved portion 3 and the portion 4 terminating at point 5, as shown, which point serves to allow of the blade passing into the sheaf of grain in a ready manner. For the purpose of lightening a suitable opening 6 may be formed within the blade; but it is readily apparent that such opening may be dispensed with, if necessary.

The fastening of the blade 1 to the plate 2 may be accomplished in any suitable manner, it depending entirely upon the form of plate used as to how this fastening is made. In the construction shown in Fig. 1 the fastening is accomplished by making V-shaped incisions in the plate and bending down the portions on opposite sides of the blade, said portions and the blade being connected by means of suitable rivets. This makes an exceedingly simple and durable fastening and one which can be readily formed.

The fastening shown in Fig. 2 differs from the one shown in Fig. 1 in that it is adapted to be riveted together with the glove between the parts 1 and 2. In this mode of fastening the blade is provided with suitable engaging clips 7, having suitable extending portions 8, which are adapted to be passed through the glove and through the openings 9, formed in the plate 2, said portions 8 being riveted to the plate after having been inserted thereon.

As both the edges 3 and 4 are sharpened, it will be readily seen that the bands may be cut with either a forward or rearward movement of the hand, in addition to which an absolute certainty of the cutting of the bands is apparent by reason of the fact that should the band be unseen by the feeder it is necessary only that he should draw his hand downward over the sheaf of wheat, whereupon the point 5 will pass within the sheaf and grip the band, the edge 4 cutting it with absolute certainty.

The operation of this device is believed to be clearly apparent, and it is not thought necessary that the same be given more in detail.

The advantages of this construction are its adaptability for use, the absolute certainty of cutting the band, the ease which the cutter gives to the feeder in drawing the sheaf of grain toward the threshing-cylinder, its neat and attractive appearance, its durable construction, and its low cost of manufacture.

While we have not described any means for securing the cutter to the hand other than that by use of a glove, by referring to Fig. 1 it will be readily seen that this can be accomplished by means of suitable straps which are adapted to pass over the back of the hand and over the wrist, the plate 2 being formed substantially to fit the palm of the hand, but which will not interfere with the movement of the fingers of the user.

While we have herein shown a preferred form of carrying our invention into effect, yet we do not desire to limit ourselves to such preferred details of construction, but claim the right to use any and all modifications thereof which will serve to carry into effect the objects to be attained by this invention in so far as such modifications and changes may fall within the spirit and scope of our said invention.

We claim—

A band-cutter having a supporting-plate, removably secured to the hand of the operator; and a blade secured to said plate, said blade having its front face curved and sharpened, and having its rear face curved and sharpened, said curved faces or edges terminating in a rearwardly-extending point, substantially as described.

In witness whereof we have hereunto set our hands in the presence of two witnesses.

WILLIAM P. RUNDLE.
JAMES E. MASON.

Witnesses:

THOS. L. HARTLEY,
M. J. ORTH.