J. N. HALFMANN.

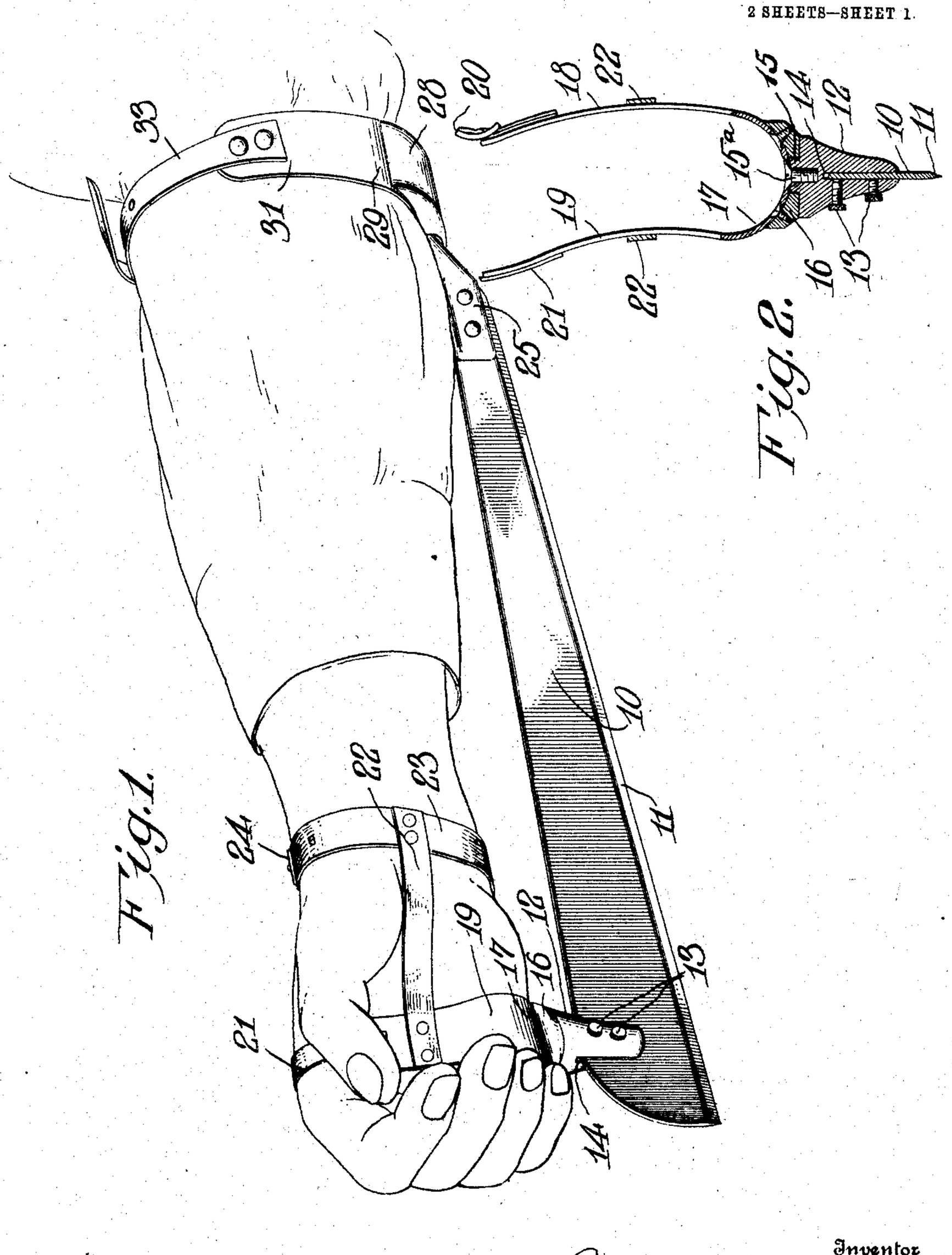
BAND KNIFE.

APPLICATION FILED SEPT. 3, 1908.

907,345.

Patented Dec. 22, 1908.

2 SHEETS—SHEET 1.



Witnesses

C. E. Smith.

Fenton S. Belt

Inventor

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2 SHEETS—SHEET 2.

Fig. 3.

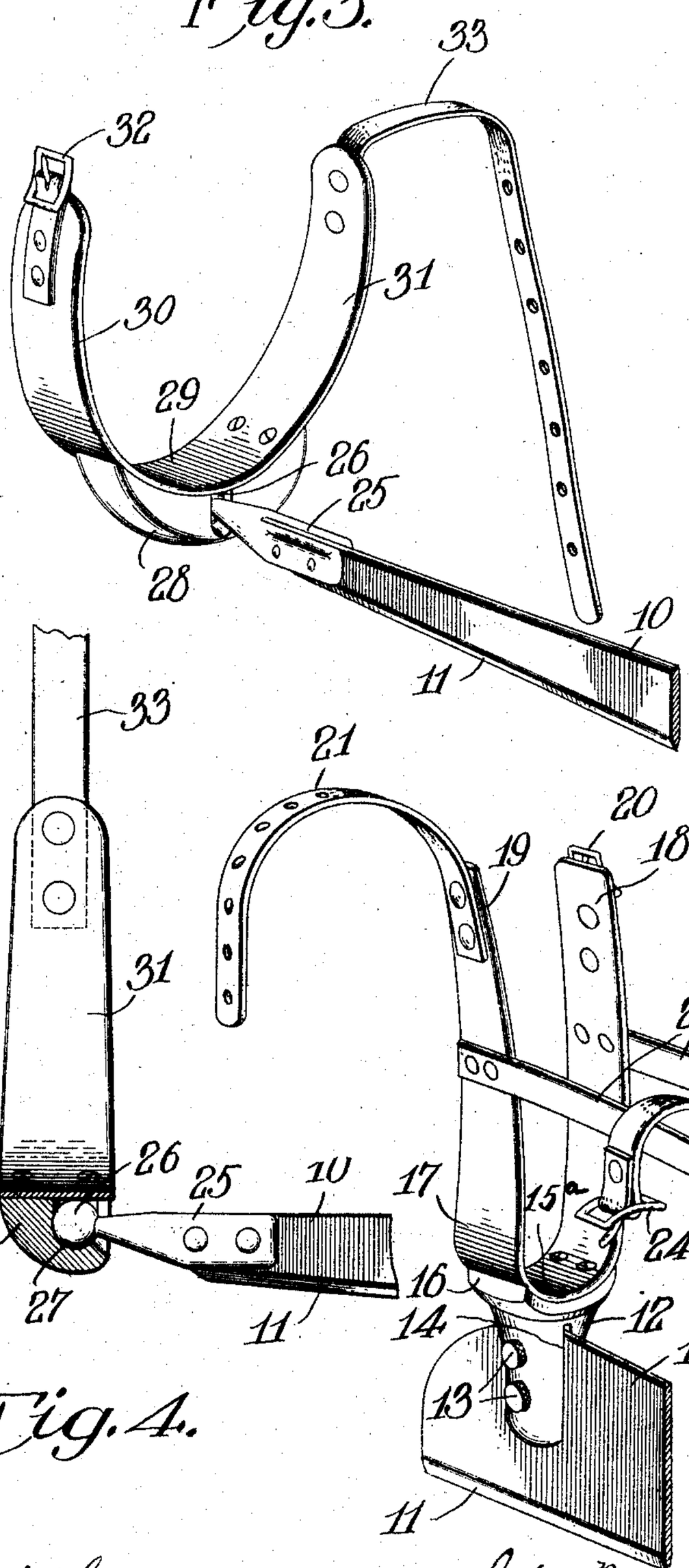

Fig. 5.

Fig. 4.

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UNITED STATES PATENT OFFICE.

JOHN N. HALFMANN, OF OSHKOSH, WISCONSIN.

BAND-KNIFE.

No. 907,345. Specification of Letters Patent. Patented Dec. 22, 1908.

Application filed September 3, 1908. Serial No. 451,496.

To all whom it may concern:

Be it known that I, JOHN N. HALFMANN, a citizen of the United States, residing at Oshkosh, in the county of Winnebago and State of Wisconsin, have invented certain new and useful Improvements in Band-Knives, of which the following is a specification.

This invention relates to that class of knives known as band-knives which are employed for cutting the bands of corn-shocks or grain-sheaves preparatory to feeding the same to the husker or thresher.

The object of the present invention is to provide a knife of this kind which may be attached to the hand and forearm of a person without interfering with said parts, the attaching means being so constructed and arranged that the arm and hand are left perfectly free.

In the accompanying drawings, Figure 1 is a perspective showing the application of the invention. Fig. 2 is a transverse section taken through the front end of the knife. Fig. 3 is a perspective detail of the fastening means for the rear end of the knife. Fig. 4 is a side elevation of said rear fastening means, partly in section. Fig. 5 is a perspective view of the fastening means for the front end of the knife.

Referring more particularly to the drawings, 10 denotes a knife blade having a cutting edge 11 extending throughout the entire length thereof. The blade tapers toward its rear end.

To the forward end of the blade 10, at the back thereof, is adjustably secured by set screws 13 a block 12, the latter being slotted as shown at 14 to receive the blade. On the outer face of this block is a stud 15 on which is swiveled and secured by a screw 15ª, or other suitable means, a plate 16 the face of which is concave, and to which face is fastened a sheet-metal strip 17 which has its ends bent up to form a yoke, the two branches of which are indicated by the reference numerals 18 and 19, respectively. The branch 18 carries a buckle 20, and to the branch 19 is fastened a strap 21, the end of which is adapted to be secured by said buckle. To the branches of the yoke are also fastened laterally extending straps 22 which carry a strap 23 which is also provided with a buckle 24 for securing the same.

The parts so far described are for securing the front end of the blade 10 to the hand and wrist of the operator. For securing the rear end of said blade, the following means are employed: To the rear end of the blade is secured a short shank 25 terminating in a ball 26 which works in a socket formed in a block 28. The face of this block is concave, and to said face is secured a strip 29 similar to the strip 17, and this strip 29 is also bent to form a yoke, the two branches of which are indicated at 30 and 31, respectively. To the branch 30 is fastened a buckle 32, and to the branch 31 is fastened a strap 33, the end of which is adapted to be secured by said buckle.

In use, the hand is placed between the branches 18 and 19, and the strap 21 is adjusted and fastened by the buckle 20. The strap 23 is passed around the wrist, and secured by its buckle 24. The forearm is placed between the branches 30 and 31, and the strap 33 is passed over the forearm a short distance below the elbow joint, and secured by its buckle 32. The branches 18 and 19 engage the palm and back of the hand, so that the thumb and other fingers are left free, and by swiveling the supporting means of the front end of the blade, as well as providing a universal joint for the support of the rear end of the blade, it will be seen that the arm and hand are left free, and that they may be moved about as desired. The straps and the yokes supporting the same can be readily adjusted to fit the hand, and by providing the set-screws 12, the front end of the blade can be set closer to or farther away from the hand to suit the operator. The yokes also serve to prevent contact of the hand and arm with the back edge of the blade. The blade may be attached to either arm and hand.

I claim:

1. A band-knife comprising a blade, swiveled attaching means connected to one end thereof, attaching means connected to the other end of the blade, and a universal joint between the last-mentioned attaching means and the blade.

2. A band-knife comprising a blade, yokes connected to the ends thereof, and attaching means connected to the yokes.

3. A band-knife comprising a blade, a yoke swiveled to one end thereof, attaching means connected to the yoke, a yoke at the other end of the blade, attaching means connected to said yoke, and a universal joint between the last-mentioned yoke and the blade.

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

JOHN N. HALFMANN.

Witnesses:

R. L. CLARK,

F. J. BARBER.