

No. 879,457.

PATENTED FEB. 18, 1908.

W. B. GEORGE.

APPARATUS FOR REMOVING THE GRAINS OF CORN FROM CORNCOBS.

APPLICATION FILED SEPT. 9, 1907

Fig. 1.

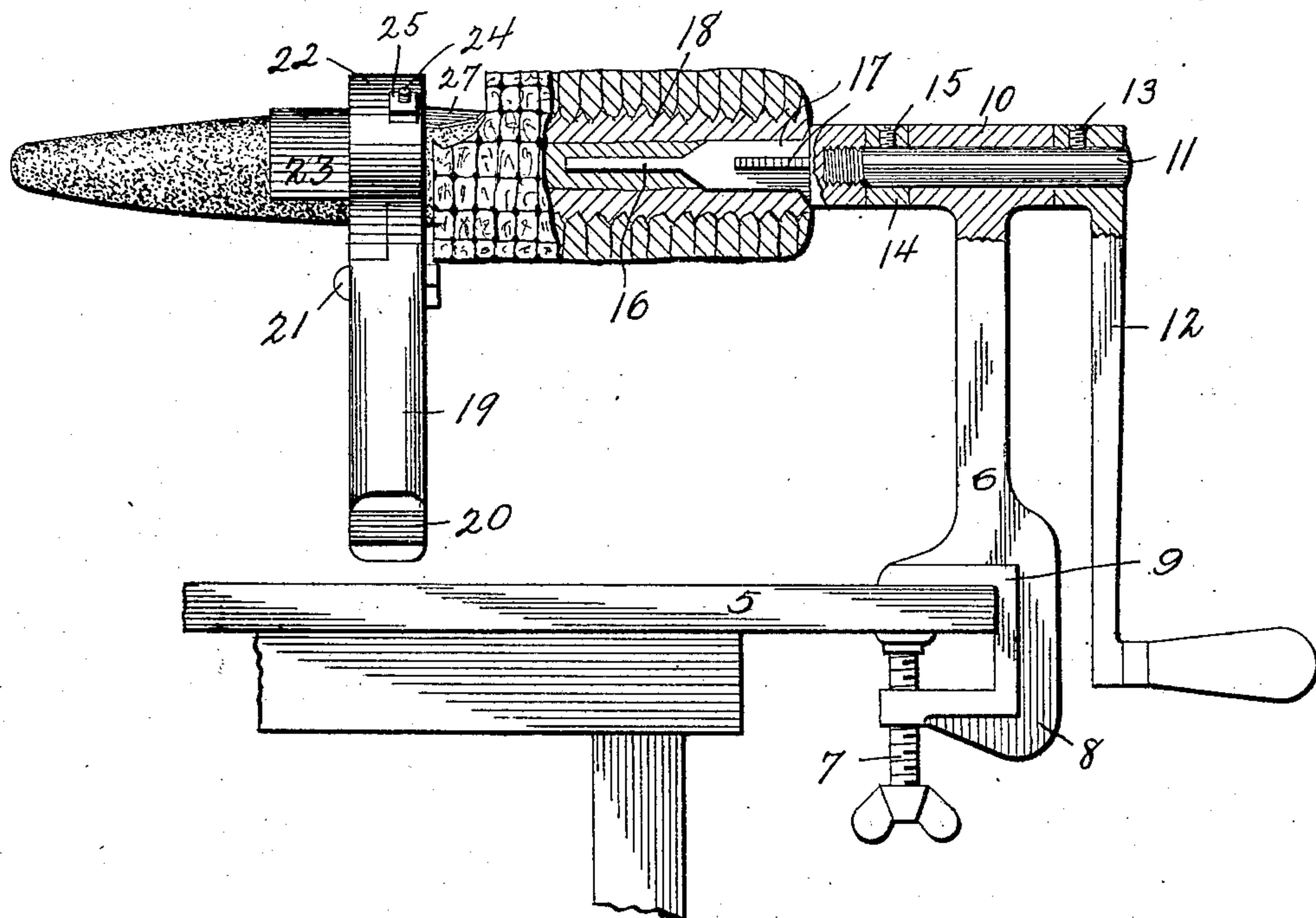
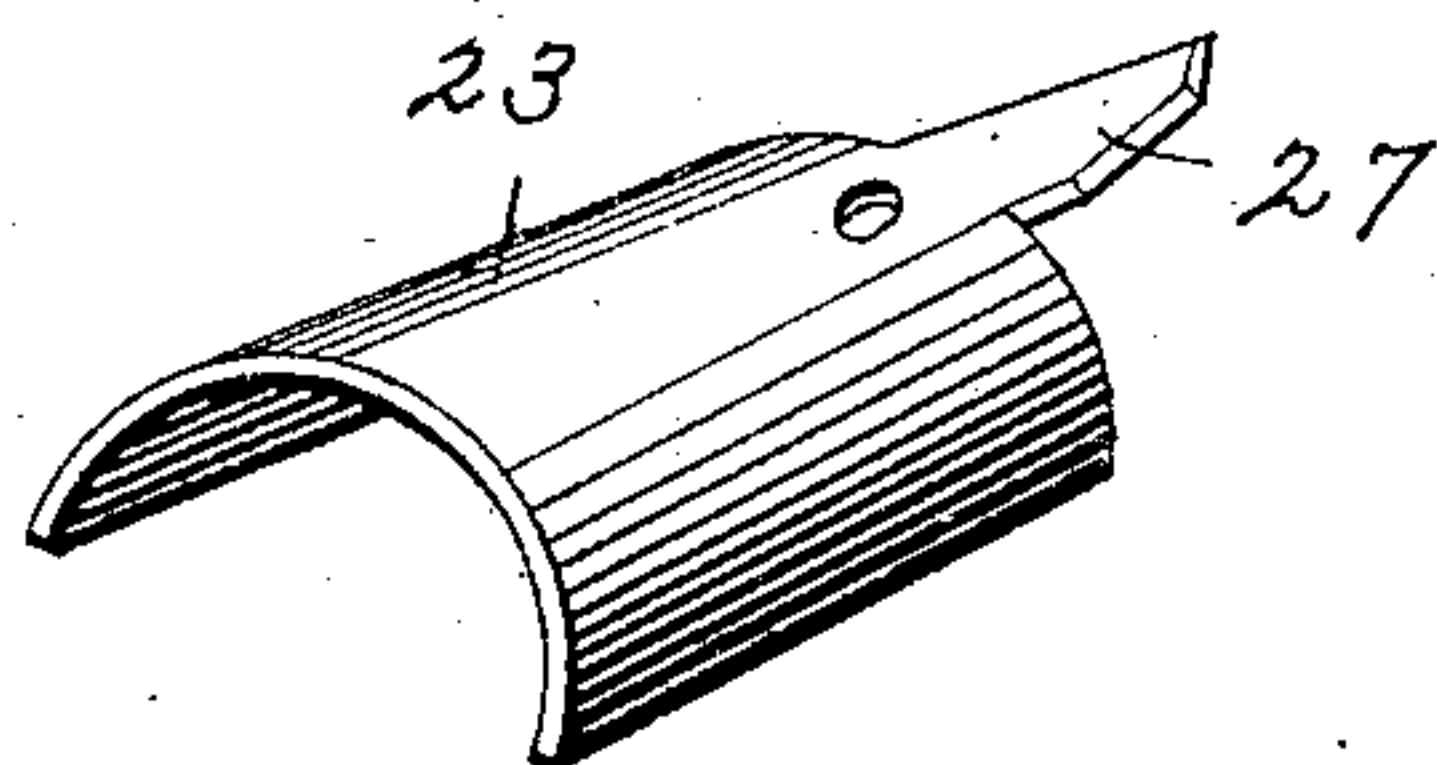
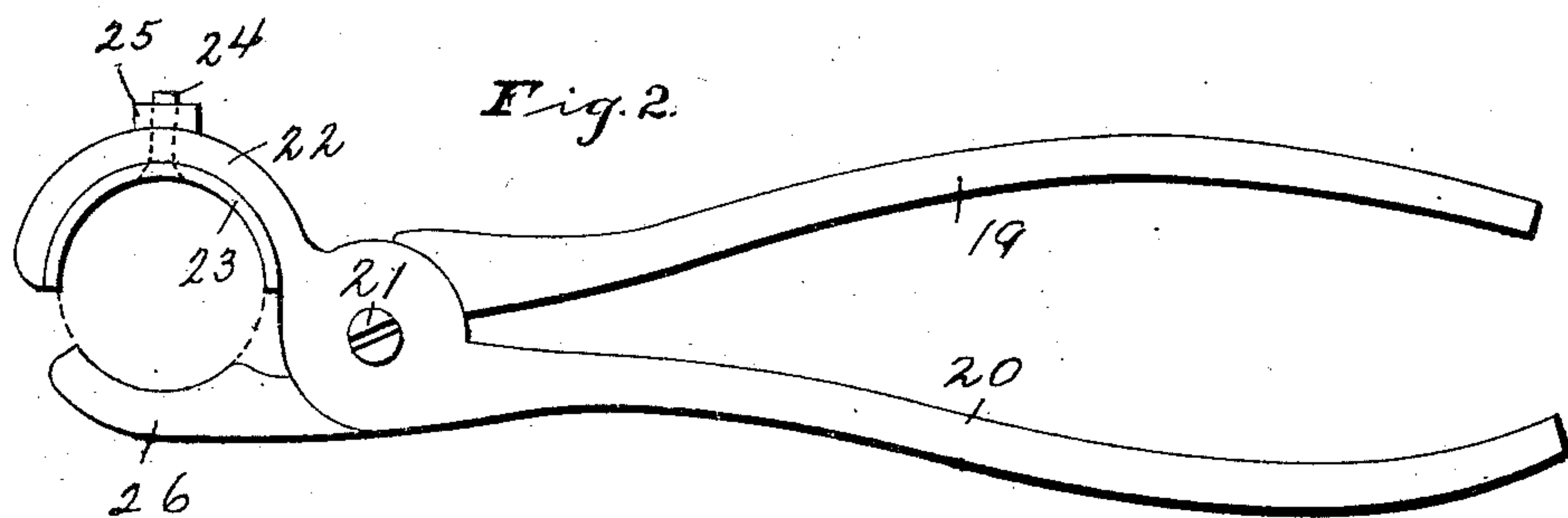


Fig. 2.



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Fig. 3.

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UNITED STATES PATENT OFFICE.

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APPARATUS FOR REMOVING THE GRAINS OF CORN FROM CORNCOBS.

No. 879,457.

Specification of Letters Patent.

Patented Feb. 18, 1908.

Application filed September 9, 1907. Serial No. 391,851.

To all whom it may concern:

Be it known that I, WILLIAM B. GEORGE, citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Apparatus for Removing the Grains of Corn from Corncobs, of which the following is a specification.

My invention relates to an apparatus for removing the grains of corn from a corn cob and is particularly adapted for use in removing green corn from the cob, though it may be used to remove the grains from dry corn, if desired, the object of the invention being to provide a device which may be very simply and cheaply made and which will effectually serve the purposes set forth.

Further objects and advantages of the invention will be set forth in the detailed description which now follows.

In the accompanying drawing: Figure 1 is a view partially in section and partially in elevation of my improved mechanism, Fig. 2 is a side elevation of a hand tool hereinafter described, and, Fig. 3 is a perspective view of a guide plate and blade hereinafter described.

Like numerals designate corresponding parts in all of the figures of the drawing.

Referring to the drawing, the numeral 5 designates a shelf or table to which a standard 6 is adapted to be secured by a thumb screw 7, said thumb screw being threaded into the inwardly projecting arm 8 of a clamp 9, said clamp being integrally formed with the standard 6. The upper end of the standard 6 is enlarged to form a bearing 10 for a shaft 11 and a handle 12 is secured to this shaft by a set screw 13 in such manner that the shaft is caused to turn with the handle when the handle is rotated. A collar 14 is secured upon the opposite end of the shaft by a set screw 15, this collar 14 preventing endwise movement of the shaft with relation to the bearing 10. Threaded upon the outer end of the shaft 11 is a sleeve 15, this sleeve having integrally formed therewith a tine 16. This tine is enlarged at its rear portion and carries ribs 17, the ear of corn indicated at 18 being adapted to be forced upon the tine 16 and the ribs causing the ear to rotate bodily with the tine and the shaft 11 when rotation is imparted to said shaft. It will be understood that the tine 16 and the ribs 17 project into the pith-like portion of the ear of corn.

The tool for actually removing the grains of corn from the cob, is illustrated in Fig. 2.

By referring to this figure, it will be seen that this tool comprises a plier-like body portion consisting of handles 19 and 20 which are pivoted to each other as at 21. The handle 20 is provided with a semi-circular head 22 and this semi-circular head carries a bearing plate 23 which is secured to the head by a screw 24 and nut 25, the head of the screw being so countersunk in the bearing plate as to present a flush surface to the ear of corn. The arm 19 carries a slightly concaved head 26 which is adapted to bear upon the underside of the ear of corn and the plate 23 carries a knife or blade 27.

The operation of the device is as follows: The operator grasps the tool shown in Fig. 2, in his left hand and with his right imparts rotation to the shaft 11 through the medium of the handle 12. He then applies the tool to the rotating ear of corn at the small end of the ear and presses the handles 19 and 20 together. This binds the rotating ear of corn between the head 26 and the plate 23 and causes the knife 27 to cut the grains from the ear of corn close to the surface of the cob. As the cob increases in size toward its inner end, the operator releases his grip upon the handles to a certain extent as the tool moves forwardly. It will therefore be seen that with such a structure as is herein shown and described, either large or small ears of corn may be accommodated and any irregularities in the surface of the ears may be accommodated. The bearing plate 23 rides over that portion of the corn cob from which the grains have been cut and forms such a bearing that the knife 27 is prevented from cutting too deeply into the cob.

From the foregoing description, it will be seen that simple and efficient means are herein provided for accomplishing the objects of the invention, but while the elements shown and described are well adapted to serve the purposes for which they are intended, it is to be understood that the invention is not limited to the precise construction set forth, but includes within its purview such changes as may be made within the scope of the appended claims.

What I claim, is:

1. In a device of the character described, the combination with means for rotatably supporting an ear of corn entirely from one end thereof and leaving the other end of said ear of corn free and unobstructed, of a hand-tool comprising a body portion and a knife

carried by said body portion, said hand-tool being adapted to be slipped over the free end of the ear of corn and the knife being adapted to cut the grains of corn from the cob, substantially as described.

2. A plier-like hand tool for the purpose set forth, said hand tool comprising a pair of handles, means for pivoting said handles together, a pair of heads, an elongated curved

bearing plate carried by one of said heads, 10 and a knife carried by said bearing plate.

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

WILLIAM B. GEORGE.

Witnesses:

FRANK G. CAMPBELL,
L. CARL STOUGHTON.