

A. F. DAVIS.
CULTIVATING SCRAPE.
APPLICATION FILED FEB. 4, 1908.

903,684.

Patented Nov. 10, 1908.

Fig. 1,

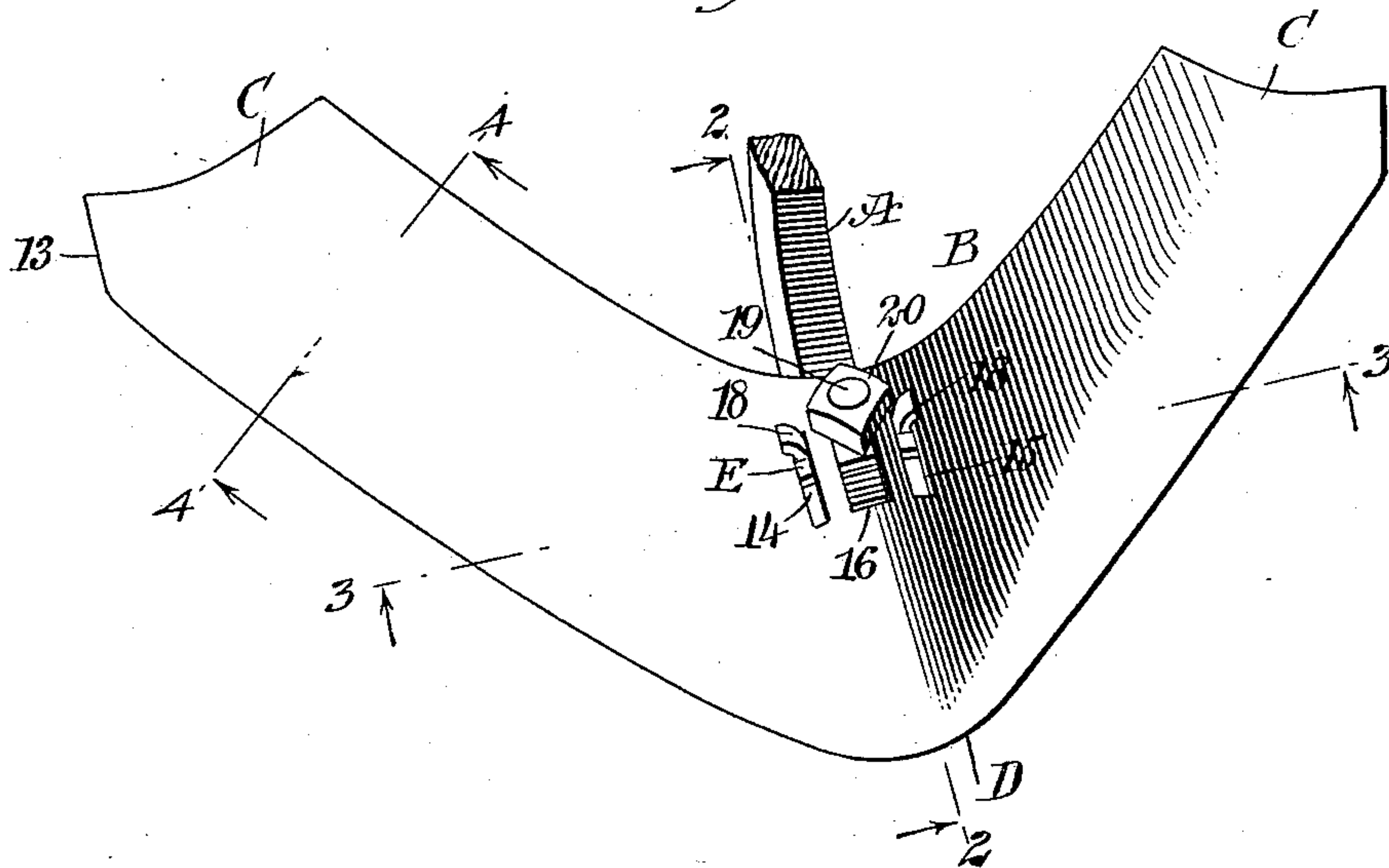


Fig. 2,

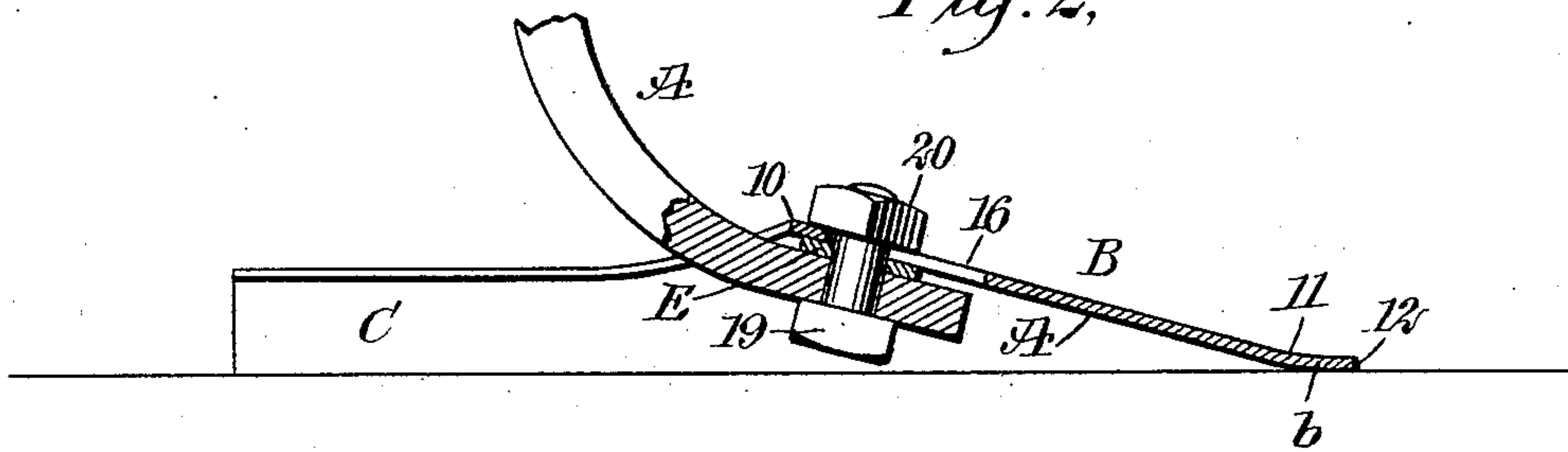


Fig. 3,

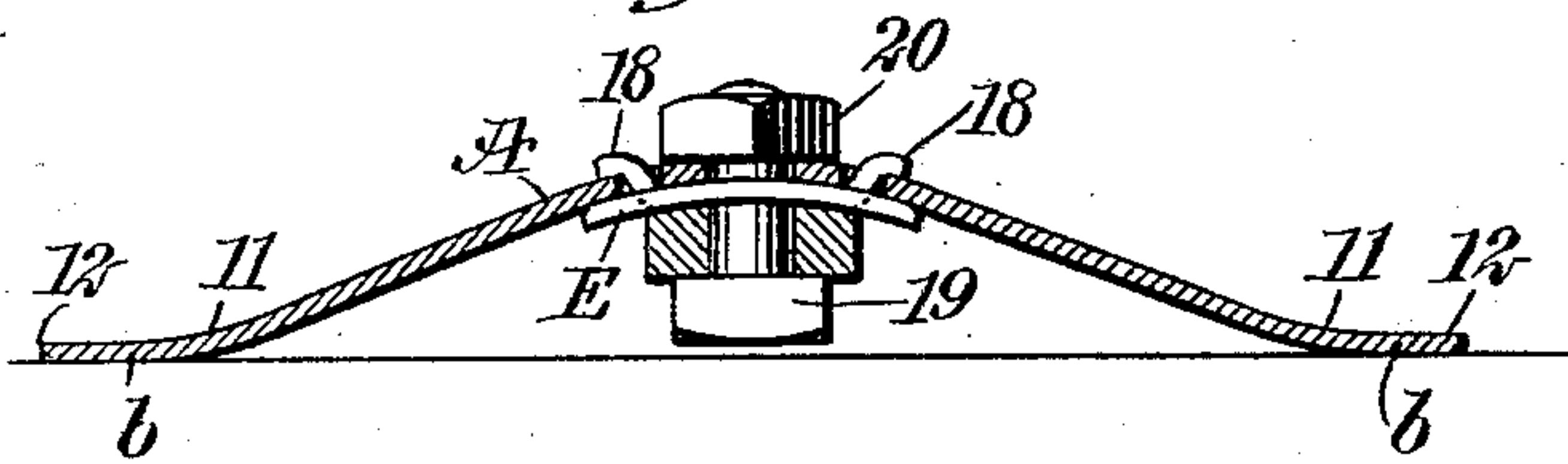


Fig. 4,

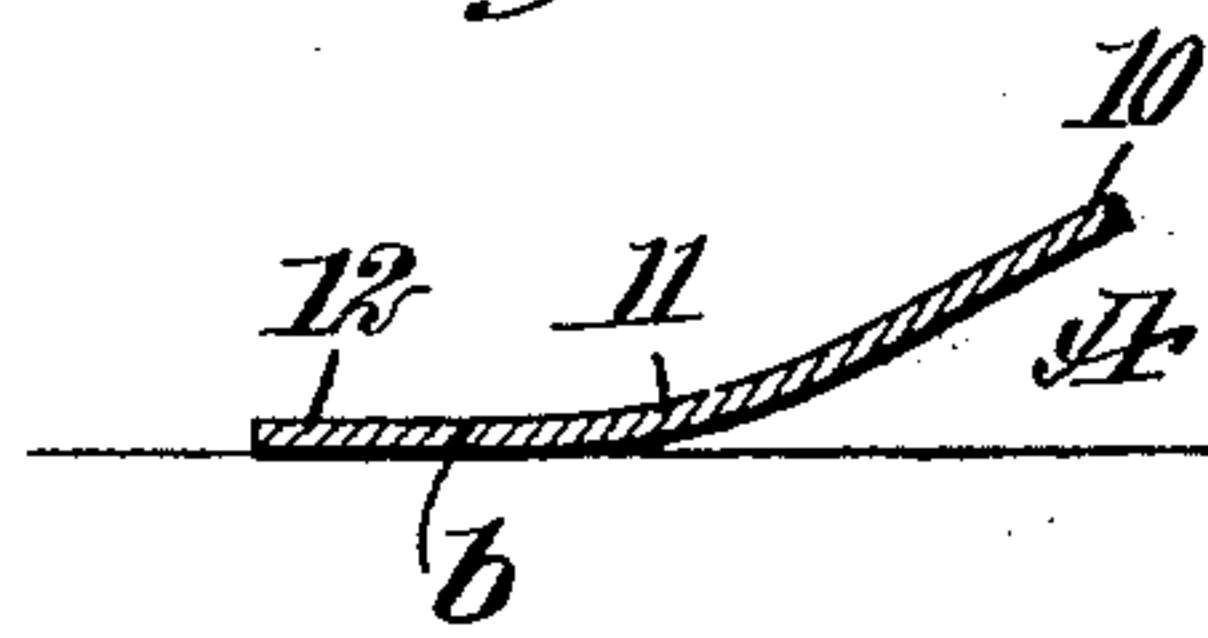
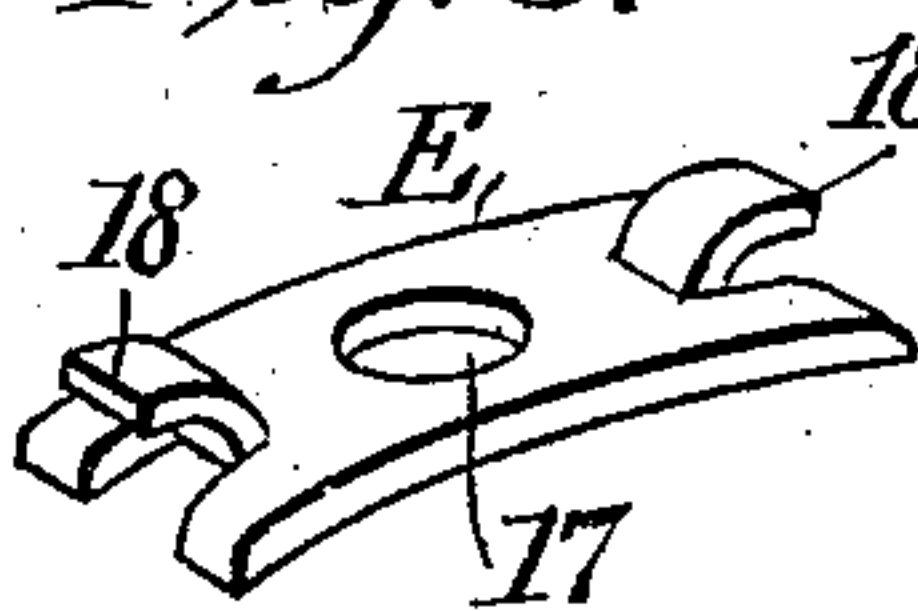


Fig. 5.



WITNESSES

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UNITED STATES PATENT OFFICE.

ALBERT FRANCIS DAVIS, OF MARION, ALABAMA.

CULTIVATING-SCRAPE.

No. 903,684.

Specification of Letters Patent.

Patented Nov. 10, 1908.

Application filed February 4, 1908. Serial No. 414,152.

To all whom it may concern:

Be it known that I, ALBERT FRANCIS DAVIS, a citizen of the United States, and a resident of Marion, in the county of Perry and State of Alabama, have invented a new and Improved Cultivating-Scrape, of which the following is a full, clear, and exact description.

The purpose of the invention is to provide a construction of cultivating scrapes adapted to be adjustably connected with a plow stock in such manner that the scrape can be run shallow or deep as required, and further, so that the scrape under all adjustments can be run flat, presenting its entire cutting edge to the earth, weeds, bushes, etc. in the most effective manner with the least possible draft resistance and without a tendency to turn in either direction, or to tilt forward or backward while being run or used, thus providing a balanced and adjustable cultivating scrape.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth and pointed out in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of the improved cultivating scrape, and a portion of the plow stock to which it is applied; Fig. 2 is a transverse section taken practically on the line 2—2 of Fig. 1; Fig. 3 is a longitudinal section taken substantially on the line 3—3 of Fig. 1; Fig. 4 is a transverse section taken substantially on the line 4—4 of Fig. 1; and Fig. 5 is a detail perspective view of the device employed for connecting the scrape to the plow stock.

A represents the plow stock, which is given a downward and a forward curvature as is shown in Figs. 1 and 2.

B represents the scrape, which is triangular in general formation, comprising two wings C which are brought together at the front of the stock to form the point D; but it will be understood that the scrape is preferably made from one piece of material, or if made in sections, said sections are welded or bolted together so that their front faces will be flush and smooth. The said scrape B is given a downward inclination from its upper edge 10 to a point 11 adjacent to its

outer or working edge 12; and the section between said point 11 and its outer edge 12 is flat, so as to lie close to the ground, but said flat surface which is designated as *b*, is not of the same width throughout, since said surface is made widest at the rear ends of the wings and gradually narrows as it approaches the point, as is indicated by the shading in the cross sectional views, Figs. 2, 3 and 4. The working edges of the wings at their rear ends are at an inclination, as is shown at 13 in Fig. 1, so as to produce at such point a cutting section that may be brought close to the plants, and which may be turned up or flattened, but which edges may be given a more acute or more obtuse angular form than shown so as to throw the earth to a greater or less degree toward the plants.

At the upper central portion of the scrape B a central transverse oblong slot 16 is made, and at each side of the said slot a narrower slot is produced, which slots are designated respectively as 14 and 15. A clip E is used to adjustably attach the scrape to the stock A. This clip, as is particularly shown in Fig. 5, consists of a metal plate curved to conform to the under concaved face of the scrape at its forward slotted portion, and said plate is provided with a central square opening 17 and at its ends with tongues 18 that are struck up from the plate and have an upward and outward inclination in opposite directions. These tongues are made to enter the side slots 14 and 15, so that the clip is vertically slidable beneath the scrape and is yet held in place, and the clip is prevented from becoming twisted, and the scrape is prevented from becoming twisted on the clip, and the walls of the slot 16 are reinforced and rendered less liable to stretch and become loose on the heel bolt. A heel bolt 19 is passed through the central square opening 17 of the clip and through the central slot 16 of the scrape, and at its upper end is provided with a suitable nut 20. By loosening the heel bolt 19, the scrape may be adjusted vertically relatively to the stock A, by sliding the clip E up or down the slot 16 and the two slots 14 and 15, and when the nut 20 is screwed firmly to an engagement with the front face of the said scrape, the scrape is held in rigid relation to the stock A. The particular formation of the scrape enables the operator to use the point D as a pivot, so as to throw the wings in or out between the

plants in a row, so as to effect a perfect cultivation of the ground at such points.

Having thus described my invention, I claim as new, and desire to secure by Letters
5 Patent:

1. The combination with a plow stock, of a cultivator scrape provided with a central transverse slot and a parallel slot at each side of the central one, a clip fitted to the under
10 face of the slotted portion of the scrape, a bolt passed through the stock, the central portion of the clip and the central opening in the scrape, and tongues at the ends of the clip that are curved upward, extending
15 through the side slots in the said scrape, and a fastening device for the bolt.

2. The combination with a plow stock, of a

cultivator scrape having a central transverse slot, a clip between the stock and scrape and with which the scrape has sliding and inter- 20 locking engagement, and a bolt passing through the stock clip and slot of the scrape.

3. A cultivator scrape having a central slot and slot at each side of the central slot, and a clip fitting the under side of the scrape 25 and having a central opening and curved tongues engaging the side slots of the scrape.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALBERT FRANCIS DAVIS.

Witnesses:

J. B. SHIVERS,

C. H. SEAWELL.