No. 650,768. Patented May 29, 1900.

G. C. AVERY.

CLEVIS.

(Application filed Nov. 29, 1899.)

(No Model.)

Fig. 1.

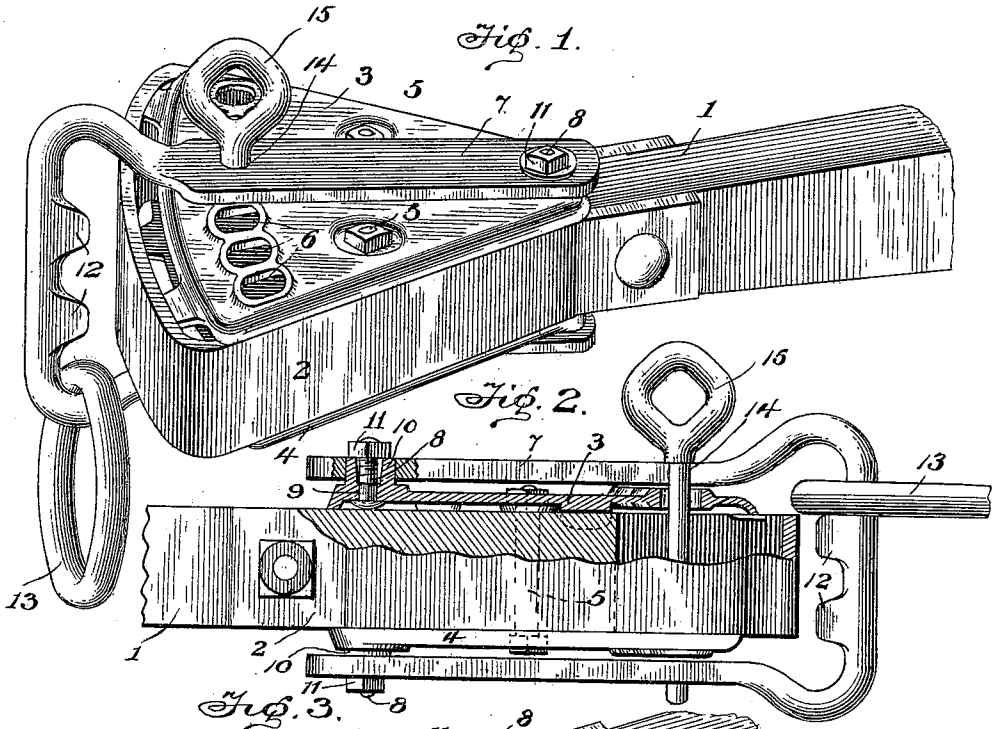
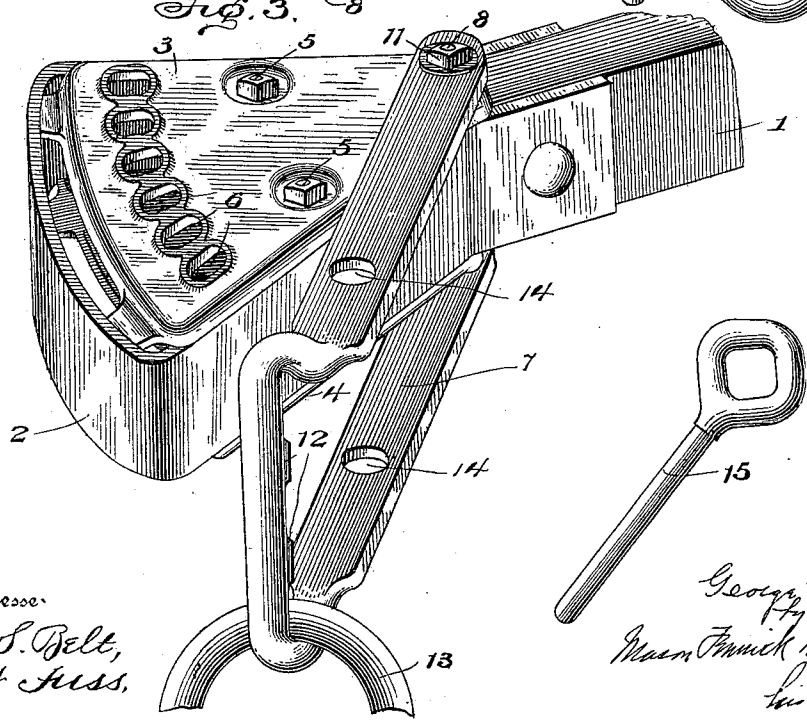


Fig. 2.

Fig. 3.



Witnesses:
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

GEORGE C. AVERY, OF LOUISVILLE, KENTUCKY, ASSIGNOR TO THE B. F. AVERY & SONS, OF SAME PLACE.

CLEVIS.

SPECIFICATION forming part of Letters Patent No. 650,768, dated May 29, 1900.

Application filed November 29, 1899. Serial No. 738,698. (No model.)

To all whom it may concern:

Be it known that I, GEORGE C. AVERY, a citizen of the United States, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Clevises; and I do hereby declare the following to be 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.

My invention relates to improvements in clevises for cultivating implements; and it consists of a clevis composed of a suitable housing which is secured to and incloses the forward end of the plow-beam, which housing is provided with suitable apertures for adjusting the side draft of the implement and a pivoted yoke provided with adjusting-notches carrying an attaching-ring, so that said ring can be adjusted vertically for adjusting the height of the hitch which regulates the draft of the implement.

In the cultivation of most soils, and particularly in the sugar-land district of the United States, it is often necessary to change the "land of the plow." This can be readily accomplished with my improved construction.

The purpose of my invention is to accomplish this object and to be able to use a wrought-iron clevis, such as is usually employed on wood-beam plows, on a steel-beam plow without altering the construction of either.

In the accompanying drawings, Figure 1 is a perspective view of my improved clevis. Fig. 2 is a side elevation, partly in section, of the same. Fig. 3 is a perspective view of my improved clevis, showing the clevis proper in an open condition, and also showing the key for locking the clevis in position.

1 in the drawings represents the front end of the beam of a cultivating implement to which is secured a flat piece of metal 2, which is bent to form the vertical walls of the housing of the device. This piece 2 is bent into proper shape to form the two side walls and front portion, and is secured at its rear end to the beam of the implement by means of a bolt and nut. On top and bottom of this wall portion and also resting on the upper and lower surfaces of the forward end of the beam are two plates 3 and 4, which are preferably counterparts of each other, so that they can be used interchangeably. These plates are secured together with a wall between them to form a housing by means of bolts 4 and 5, which extend vertically through the housing and are provided on their upper ends with nuts, which rest preferably in countersunk portions in said plates. The plates 3 and 4 are also provided in a segmental manner with adjusting-holes 6 6, which register with each other, for the attachment of the clevis proper, as will presently be described.

The clevis 7 is preferably of ordinary construction, and is pivoted at its rear ends to the top and bottom plates constituting a portion of the housing by bolts 8 8, which bolts do not extend through or penetrate the end of the beam of the cultivating implement. To obviate this, the bolts are formed with preferably square heads, which are seated in square sockets 9, which are formed in the plates 3 and 4. The said plates 3 and 4 are also provided with journal ends 10, which receive the eyes formed in the rear end of the said clevis, and the clevis is held from coming accidentally disconnected from the journal ends by means of nuts 11, as shown. The clevis proper is provided with a series of vertically-arranged teeth 12 and carries a ring 13, upon any one of which teeth the ring is adapted to be supported. The clevis proper is also provided with apertures 14 14, which are adapted to be made to register with any one of the segmentally-arranged openings in the upper and lower plates of the housing and through which a pin 15 is passed to lock the clevis proper in place after it has been adjusted to any one of the holes to regulate the side draft of the implement. When it is desired to change the ring to regulate the height of the hitch, it can be readily accomplished by pulling out the pin 15 and swinging the clevis proper to the position shown in Fig. 3 and after placing the ring upon the desired notch swinging the clevis proper back to the position shown in Fig. 1 and inserting the pin again. The distance between the teeth 12 and the front end of the housing is such as to prevent the ring

from slipping up or down off of a tooth upon which it rests after the clevis has been swung and secured in the position shown in Fig. 1.

By my improved construction I am enabled to use a clevis of ordinary construction upon a steel-beam plow without changing the construction of either, and the parts of the device being very simple in construction and operation and easy to apply it can be purchased at slight cost.

Having now described my invention, what I claim as new, and desire to secure by Letters Patent, is--

1. A device for regulating the draft of a cultivating implement, comprising in its construction a suitable side wall and upper and lower removable plates, each of which is provided with adjusting-holes, a clevis proper pivoted at its rear end in said plates and provided with vertical apertures and vertically-arranged teeth and carrying a hitching-ring and a pin which is adapted to be passed through the clevis and in one of the adjusting-holes in the plates of the housing, substantially as described.

2. A device for regulating the draft of a cultivating implement, comprising in its construction a suitable side wall and upper and lower removable plates, each of which is provided with a boss or journal and adjusting-holes, a clevis proper pivoted at its rear end in said plates by bolts, which do not extend into the beam of the implement, said clevis being provided with vertical apertures and vertically-arranged teeth and carrying a hitching-ring, and a pin which is adapted to be passed through the clevis in one of the adjusting-holes in the plates of the housing, the construction and arrangement being such that the clevis is adapted to be thrown out so that the ring can be adjusted in any one of the teeth and the clevis then swung back and locked in position upon the housing, whereby the ring will be held in its adjusted position, substantially as described.

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

GEORGE C. AVERY.

Witnesses:
S. E. WIARD,
O. G. KANSTON.