

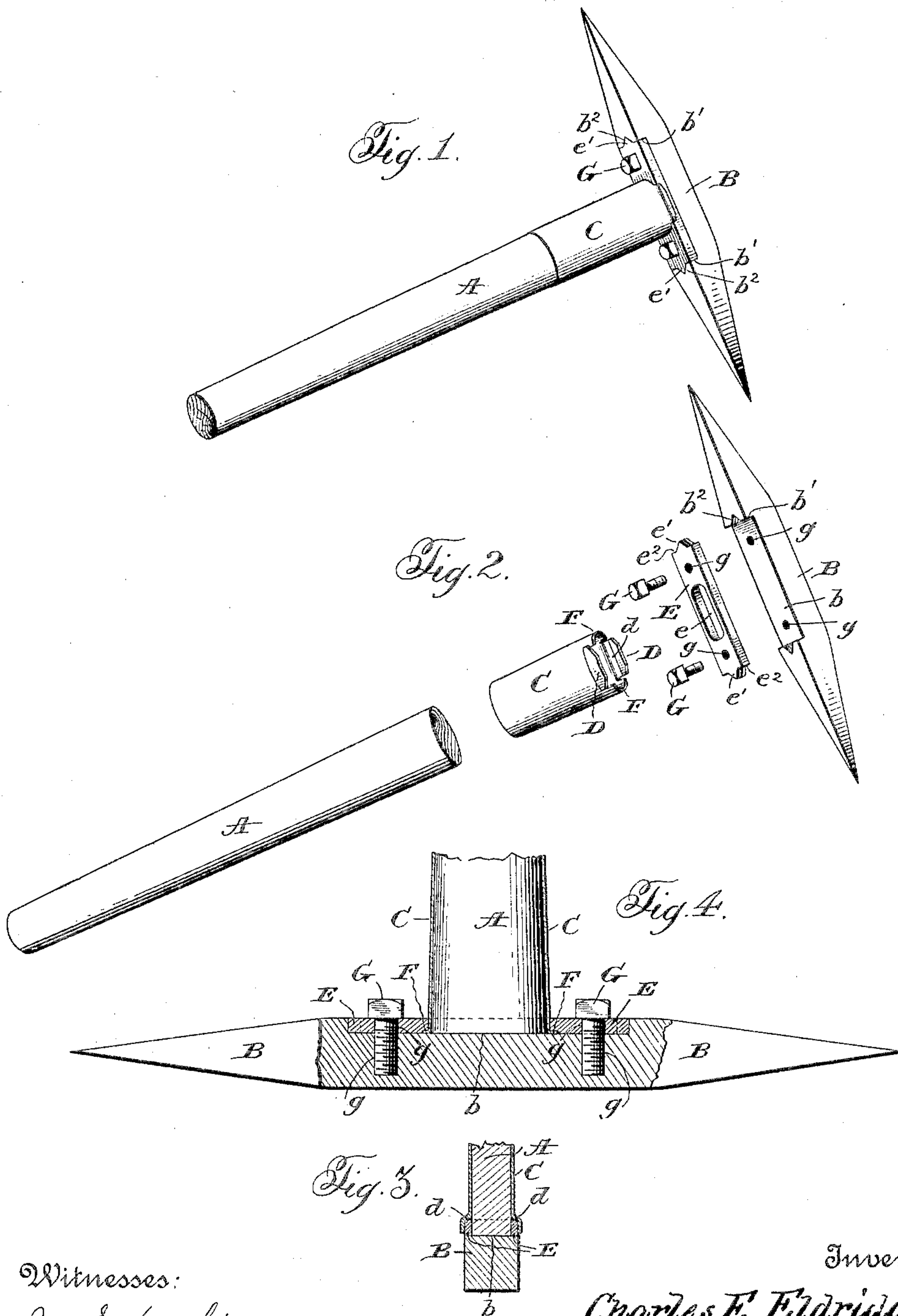
No. 793,831.

PATENTED JULY 4, 1905.

C. F. ELDRIDGE.

PICK.

APPLICATION FILED FEB. 21, 1905.



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UNITED STATES PATENT OFFICE.

CHARLES FLOIED ELDRIDGE, OF HERRIN, ILLINOIS.

PICK.

SPECIFICATION forming part of Letters Patent No. 793,831, dated July 4, 1905.

Application filed February 21, 1905. Serial No. 246,772.

To all whom it may concern:

Be it known that I, CHARLES FLOIED ELDRIDGE, a citizen of the United States, residing at Herrin, in the county of Williamson and State of Illinois, have invented certain new and useful Improvements in Picks, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to improvements in picks, and has for its object the provision of a device of this character having improved means for securing the head or implement to a handle whereby a simple though strong and durable detachable connection is afforded therebetween.

A convenient embodiment of the invention is illustrated in the accompanying drawings, wherein it will be noted that the characteristics of the tool are a ferrule fitting the end of the handle, a fastening-plate secured thereto, and an interfitting engagement intermediate said plate and the pick or implement.

Novel details in the construction and arrangement of the several parts of the tool will be apparent from the detailed description hereinafter when read in connection with the drawings.

In said drawings, Figure 1 is a perspective view of the tool. Fig. 2 is a similar view showing the parts separated; and Figs. 3 and 4 are respectively cross-sectional views of the coupling between the implement and its handle, the same being taken on lines running the one transversely and the other longitudinally thereof.

Referring more specifically to the drawings, wherein like reference characters refer to corresponding parts in the several views, A designates a handle of suitable length and shape, and B a pick secured to the end thereof. It is to be observed, however, that although a pick has been and will hereinafter be referred to any other implement may be employed as may be found desirable and to which the coupling now to be defined is adapted.

The end of the handle A is somewhat enlarged and tapered, as shown in Fig. 2, and upon such end I secure a similarly-tapered ferrule C, which is conveniently made of sheet

metal. The outer end of this ferrule is provided with elongated oppositely-disposed offset flanges D, adapted to embrace and provide between the same and the sides of the handle A seats for a fastening-plate E, said seats being represented at *d*. Other flanges F, extending in line with the narrow edges of the ferrule, pass through the opening *e* in the plate E and are bent or forced down upon the end walls thereof. (See Fig. 4.) In this manner the fastening-plate is rigidly secured to the ferrule and handle, the enlarged end of the handle, owing to its wedging action upon the flanges F, also serving to insure the maintenance of the parts in place. By forming the ferrule and fastening-plate of separate pieces said ferrule, as heretofore explained, may be formed of sheet metal, and the plate may be formed from strips or bars of metal with ease and in quantities, as is obvious.

The pick B or other implement has a recess or depression *b* in its inner face, the end walls of which have centrally-disposed V-shaped notches *b'*, terminating in square shoulders *b''*, while the plate E is provided at its ends with corresponding V-shaped extensions *e'* and square shoulders *e''*, whereby the plate may snugly fit said recess or depression *b*, as clearly indicated in Fig. 1. The implement and the plate are provided with aligned threaded apertures *g*, located one adjacent to each end of the plate, for the reception of complementary bolts G, which secure the plate, as also the ferrule and handle, to the implement. The coupling being a detachable one enables the ready removal of a broken implement and the substitution of another therefor. The interfitting engagement between the V-shaped extensions and notches and the abutting of the adjoining square shoulders prevents any lateral play or loosening of the parts.

It is to be understood that changes and alterations may be made in the embodiment of the invention disclosed herein without departing from the spirit of the invention.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. In combination with an implement and a

handle therefor, a coupling intermediate the implement and handle comprising a ferrule, offset flanges thereon forming separated seats, a fastening-plate secured in said seats, and
5 means for securing the plate to the implement.

2. In combination with an implement and a handle therefor, a coupling between the implement and handle comprising a ferrule, offset flanges thereon forming separated seats
10 between said flanges and the handle, a fastening-plate engaging said seats and surrounding the end of the handle, other flanges on the ferrule fitting intermediate the fastening-plate and the handle and secured to said plate, and
15 means for securing the plate to the implement.

3. In combination with an implement and a handle therefor, a coupling between the implement and handle comprising a ferrule, offset flanges thereon forming separated seats
20 between said flanges and the handle, a fastening-plate engaging said seats and surrounding the end of the handle, other flanges on the ferrule fitting intermediate the fastening-plate and the handle and forced down upon the wall

of the plate surrounding the handle, and means 25 for securing the plate to the implement.

4. In combination with an implement and a handle therefor, a coupling therebetween including a plate seated within a recess or depression in the inner face of the implement, a
30 V-shaped interfitting engagement between the ends of said plate and the end walls of the recess or depression in the implement, the V-shaped projecting portion of said engagement being formed integral with the member to
35 which it is attached, and both said plate and said end walls having square shoulders adjoining said V-shaped interfitting engagement, and means independent of said interfitting engagement for securing the plate and implement
40 together.

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

CHARLES FLOIED ELDRIDGE.

Witnesses:

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