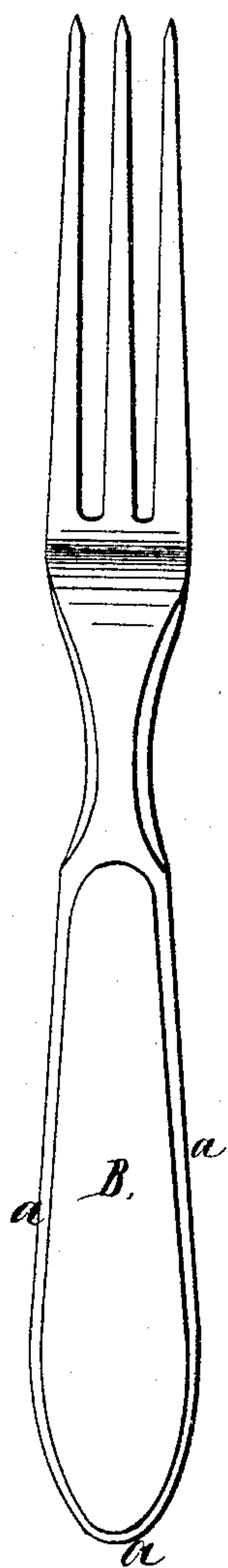


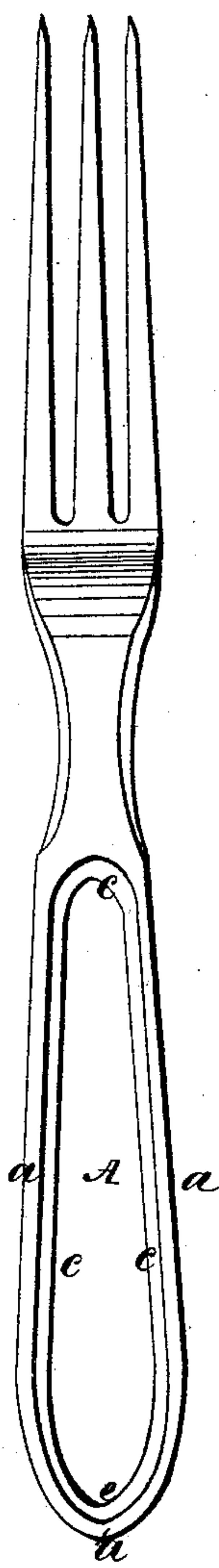
*J. W. Gardner,*

*Attaching Handles to Cutlery.*  
*N<sup>o</sup> 62,626. Patented Mar 5, 1867.*

*Fig. 2*



*Fig. 1.*



*Fig. 3*



*Witnesses:*

*J. P. Patten*  
*Henry M. Sturges*

*Inventor:*

*Joseph W. Gardner.*  
*By atty. A. B. Stoughton.*

# United States Patent Office.

JOSEPH W. GARDNER, OF SHELBURNE FALLS, MASSACHUSETTS.

*Letters Patent No. 62,626, dated March 5, 1867.*

## IMPROVED MODE OF ATTACHING HANDLES TO TABLE CUTLERY.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOSEPH W. GARDNER, of Shelburne Falls, in the county of Franklin, and State of Massachusetts, have invented a new and useful improvement in the Manner of Attaching Handles to Knives, Forks, or other Cutlery; and I do hereby declare the following to be a full, clear, and exact description of the manner of doing the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents the appearance of a fork before the handle is fastened in or to it.

Figure 2 represents the fork after the handle is secured to it; and

Figure 3 represents a section through the handle of the fork, showing the union between the metal and the material of which the handle is made, as, for instance, bone, ivory, pearl, or any imitations of the same, or of wood or other material used for such purposes.

My invention consists in forming an opening in the tang or after part of the knife, fork, or other similar thing, into which a grooved handle of any suitable material is placed, and then compressing or condensing the metal into the groove in the handle by any suitable machinery, thus dispensing with all riveting or fastening by additional pieces of metal, as heretofore done.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawings.

The fork, or other piece of cutlery, may be made of any of the usual well-known forms and metals, and the portion usually termed the tang has an opening, A, formed in it of an oblong, oval, or other suitable form, so as to leave a continuous metal margin, *a*, around said opening. The tang or after portion of the fork or knife is then placed in a press or under a drop-die, and the inner margin *c* of the rim *a* is pinched or struck down to a bevelled edge, as shown in fig. 3. The handle B, of bone, ivory, pearl, or any other material of which the handles of cutlery are formed, and of an outline corresponding to that of the tang or rear portion or of the opening therein, and grooved to receive the bevelled edges of the rim, is then placed in said opening A, and the whole placed between a pair of dies, and by means of a screw or other press, the steel or metal of which the fork or the tang is made is compressed or condensed into the groove in the handle, as shown at fig. 3, and thus making a perfectly secure connection between the tang and handle without clinching or riveting, and without necessarily using any other piece of metal than that of the tang itself. I thus produce a knife or fork or other piece of cutlery or surgical or dental instruments, with a solid handle secured thereto by a metal rim in one piece, and that piece a part or parcel of the blade or fork, without rivets, caps, or any third piece, and simply by condensing the rim of the metal into a groove cut around the handle. And by thus securing handles to blades, forks, or other instruments, I not only make a better and more enduring article, but a cheaper and neater construction than heretofore made.

Having thus fully described my invention, what I claim as new, and desire to secure by Letter Patent, is—

Securing handles to forks, knives, or other instruments, by condensing the metal portion of such article in a groove formed in the handle, substantially in the manner herein described and represented.

JOSEPH W. GARDNER.

Witnesses:

F. A. BALL,

H. O. SMITH.