Oct. 21, 1924. 1,512,622

R. J. MARSH

HOLLOW HANDLE ARTICLE

Filed Feb. 4, 1924

Fig. 1.

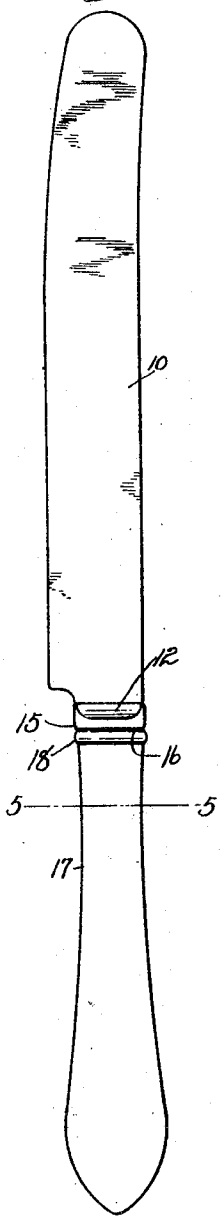


Fig. 2.

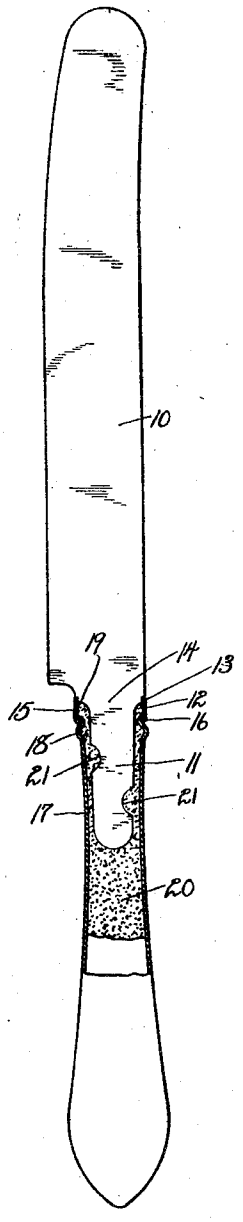


Fig. 3.

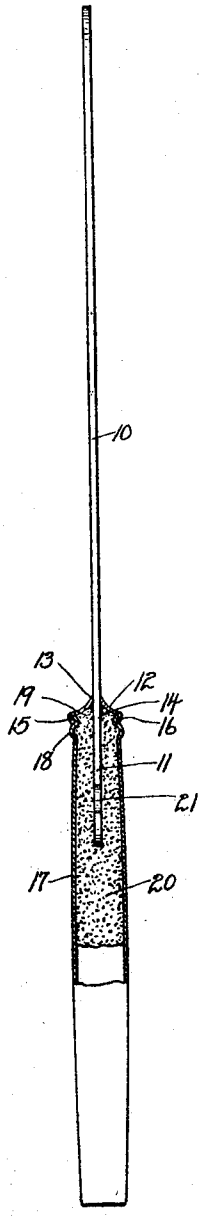


Fig. 4.

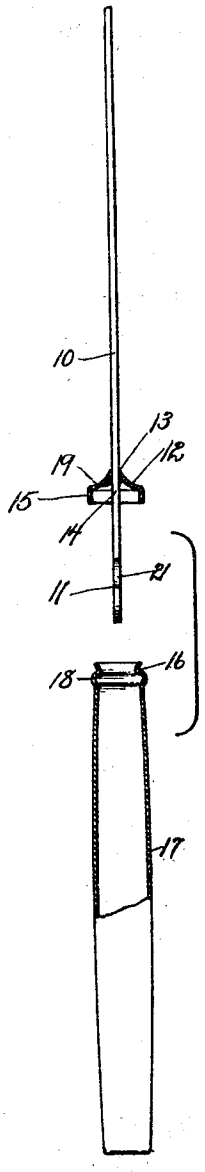


Fig. 5.

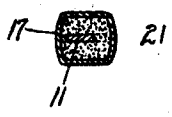


Fig. 6.



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UNITED STATES PATENT OFFICE.

RALPH J. MARSH, OF WALLINGFORD, CONNECTICUT, ASSIGNOR TO R. WALLACE & SONS MFG. CO., OF WALLINGFORD, CONNECTICUT, A CORPORATION.

HOLLOW-HANDLE ARTICLE.

Application filed February 4, 1924. Serial No. 690,353.

To all whom it may concern:

Be it known that I, RALPH J. MARSH, a citizen of the United States, residing at Wallingford, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Hollow-Handle Articles; and I do hereby declare the following, when taken in connection with the accompanying drawings and the characters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this application, and represent in—

Fig. 1 a view in side elevation of a table-knife embodying my invention.

Fig. 2 a similar view with the hollow handle in flatwise section.

Fig. 3 an edge view with the handle in edgewise section.

Fig. 4 a view of the blade and bolster in position for the tang of the former to be inserted into the handle, which is shown partly in elevation and partly in edgewise section.

Fig. 5 a view in transverse section of the handle on the line 5—5 of Fig. 1.

Fig. 6 a detached plan view of the independent bolster.

My invention relates to an improvement in hollow-handle articles, particularly table knives and forks, but capable of use in the manufacture of a variety of kindred articles in which an implement is mounted in a hollow handle, the object being to greatly reduce the cost of labor and material entering into such articles without any impairment in the appearance thereof.

With these ends in view, my invention consists in hollow handle articles characterized by a one-piece, struck-up, sheet-metal bolster having its edge shaped to be interlocked with the corresponding edge of the mouth of a hollow handle.

My invention further consists in a hollow-handle article having certain details of construction as will be hereinafter described and particularly pointed out in the claim.

For the illustration of my invention, I have shown it as applied to table knives for which it was primarily designed and for which it is peculiarly adapted, though I do not limit myself to such use of it, as already stated.

As herein shown, the blade 10 and tang 11 of the knife are cut out from a single piece of wrought sheet-metal of suitable gauge, instead of being forged from a rod, which is the customary practice in the manufacture of hollow-handle table knives. Upon the said blade I mount a one-piece struck-up, sheet-metal bolster 12, the apex of which is formed with a longitudinal slot 13 adapted in length and width to receive the inner end or butt 14 of the tang 11, at the point where the same merges into the blade 10 proper. The open end of the said bolster is formed with a continuous flange 15, the edge of which is sleeved over and turned into a circumferential locking-groove 16 encircling the mouth of the hollow handle 17, which may be of any approved construction and design, the said groove 16 being flanked on its inner side by a bead or fillet 18. The locking-flange 15 may be turned into the said groove in any convenient manner, such as peening, rolling or by dies.

After the tang 11 of the blade 10 has been passed through the assembling-slot 13 of the bolster 12, the bolster is preferably secured to the tang, and hence to the blade, by a small mass of solder 19, located within it, as shown in Fig. 4, whereby the bolster is secured to the blade and whereby the bolster-opening 13 is closed so as to prevent the access of any moisture into the handle.

Preferably, though this is not necessary, the handle is filled with some suitable composition, such as 20, surrounding the tang 11 and filling the handle and, as shown, the bolster, whereby the tang is imbedded in the composition and prevented from flatwise deflection within the handle, in case of flatwise pressure upon either face of the blade. To further anchor the tang and hence the blade in place, the tang, as shown, and preferably is formed with anchoring-notches 21 receiving portions of the composition, whereby the tang and hence the blade are more firmly held against longitudinal displacement.

Instead of filling the handle with composition 20, as shown, I may adopt the common and well-known practice of inserting a cartridge, so to speak, of fusible metal into the handle prior to the application thereto of the blade and bolster; then, after the same have been assembled, the knife is reversed in position and the handle heated, causing the fusible metal to fuse and re-form itself around the tang, so as to form a solid anchoring mass therefor. This expedient is

too well known in the art to call for illustration.

Heretofore, hollow-handle table-ware has generally been produced by forging the implement-member, such as a knife-blade, with an integral bolster adapted in size and shape to close the open end or mouth of the hollow handle. This construction is expensive as to time, labor and material, and unless the work is done with great nicety, the article presents at the bolster a somewhat clumsy appearance. Under my invention, I am able to avoid any forging of the implement-member and the consequent loss of material, by making the same of heavy sheet-metal stock, being enabled to do this by the employment of an independently-formed struck-up one-piece bolster which presents not only an elegant appearance but constitutes an effective joint between the implement-member and the handle of the article, the adjacent edges of the said bolster and handle being shaped to be interlocked.

I claim:

The combination with a hollow, sheet-metal handle of unbroken external contour between its ends and of the full length of such handles, and having a locking-groove formed close to its open inner end, of a short, struck-up, one-piece, sheet-metal bolster having its apex slotted and having its flange adapted to fit over the edge of the open end of the handle, and to be turned into the said locking-groove adjacent thereto, whereby the bolster and handle are interlocked at the inner end of the latter, an implement having a tang passing through the slot in the apex of the bolster and into the handle, and a body of filling material located within the handle and embedding the said tang for giving stability to the implement.

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

RALPH J. MARSH.

Witnesses:
JOHN WM. HEATH,
M. P. NICHOLS.