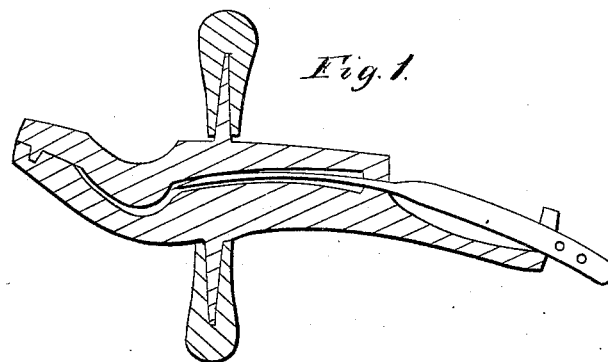


*W. Mix,  
Spoon.*

*N<sup>o</sup> 6,413.*

*Patented May 1, 1849.*



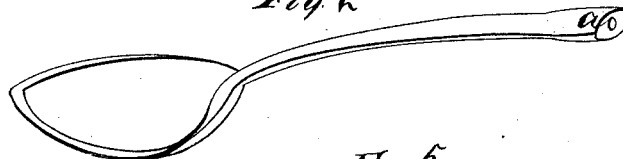
*Fig. 4.*



*Fig. 3.*



*Fig. 2.*



*Fig. 5.*



# UNITED STATES PATENT OFFICE.

WILLIAM MIX, OF PROSPECT, CONNECTICUT.

## IMPROVED METHOD OF MAKING WIRE-STRENGTHENED SPOONS.

Specification forming part of Letters Patent No. 6,413, dated May 1, 1849.

*To all whom it may concern:*

Be it known that I, WILLIAM MIX, of Prospect, in the county of New Haven and State of Connecticut, have invented a new and Improved Mode of Manufacturing Spoons; and I do hereby declare that the following is a full and exact description thereof, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a section of the mold in which the spoon is cast. Fig. 2 represents the body of a spoon as it leaves the mold. Fig. 3 is the draw-tap. Fig. 4 is the stationary die, and Fig. 5 represents the spoon complete.

The metal employed in this process may be tin, britannia, or any other fusible alloy, and the mold in which they are cast is constructed to accommodate a draw-tap in the same or a similar manner as that described in Letters Patent granted to me on the 23d day of May, 1848; but with such a difference in the construction of the mold that the spoon-handle is cast in a straight, or nearly straight, form, and with the end of the handle much larger than ordinary, as shown at *a*, Fig. 2, for the purpose and advantage of causing the metal to

fill the mold more readily and perfectly, and also of rendering the finishing of the handle more convenient. When the body of the spoon is cast upon the draw-tap, the mold is opened, the tap is withdrawn, and the orifice in the handle is filled with iron or other strong wire. The spoon is then placed upon a die, as represented in Fig. 4, and by the concussion of the corresponding drop-die is swaged to the required shape, as shown in Fig. 5, completely covering and concealing the internal iron wire. This may be done by either a drop, press, or roller-dies.

What I claim as my invention, and desire to secure by Letters Patent, is—

The method herein described of making spoons by first casting them upon a draw-tap with the ends of the spoon-handles larger than ordinary, and then having inserted a wire, swaging the handles to the required and proper shape, completely covering and concealing the inserted wire.

WILLIAM MIX

Witnesses:

RUFUS PORTER,  
JAMES DONAHOE.