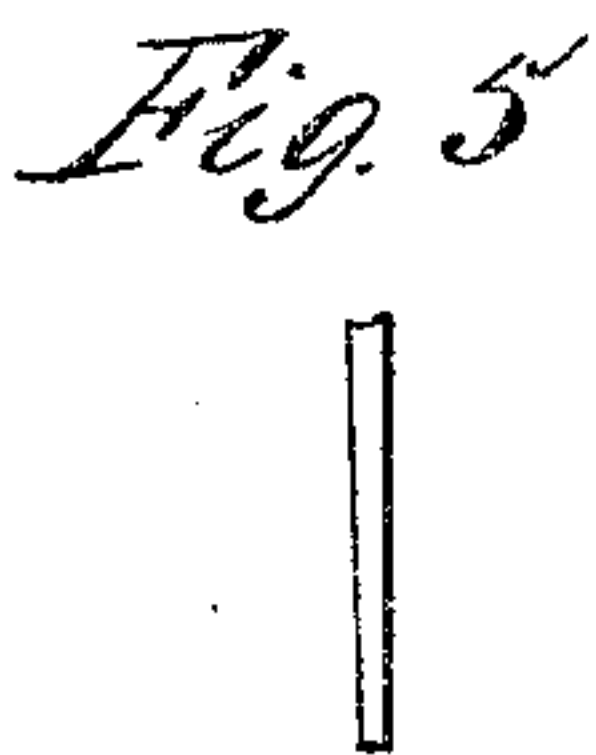
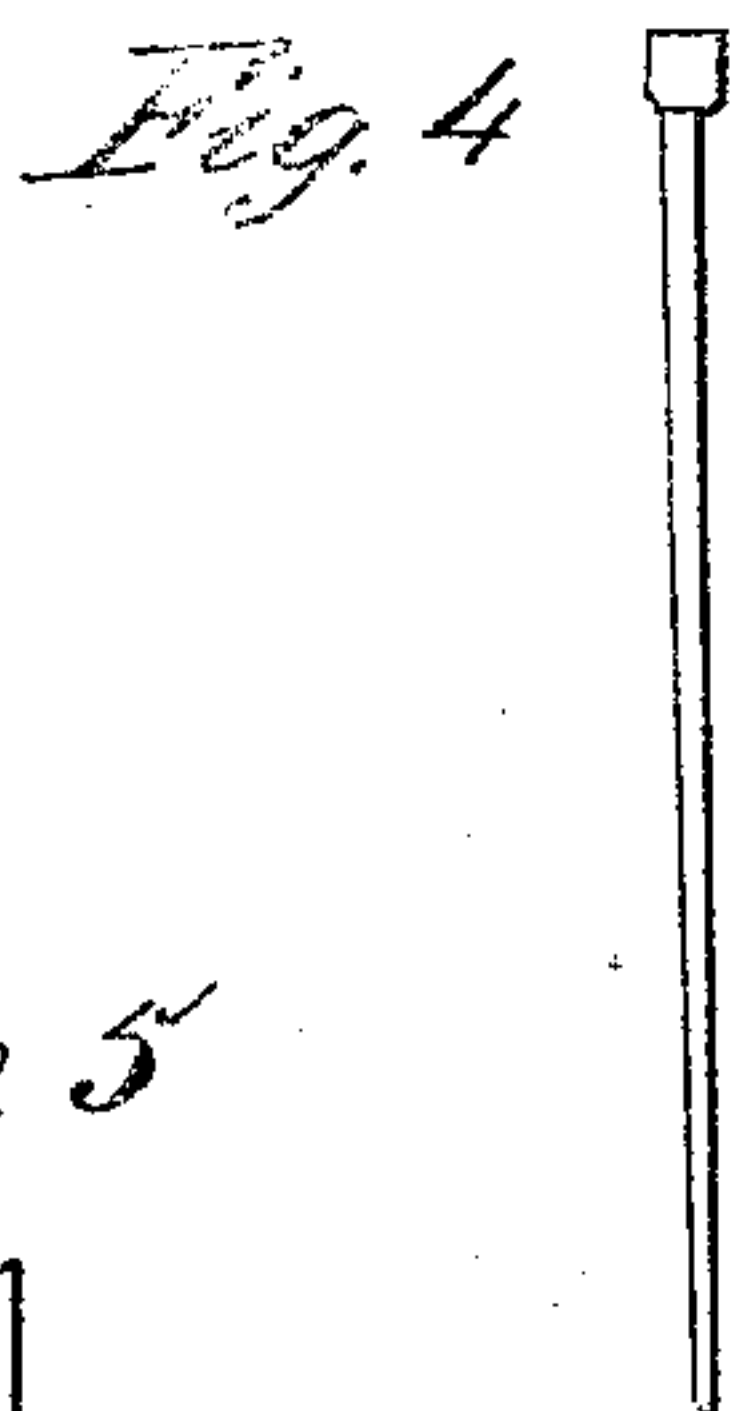
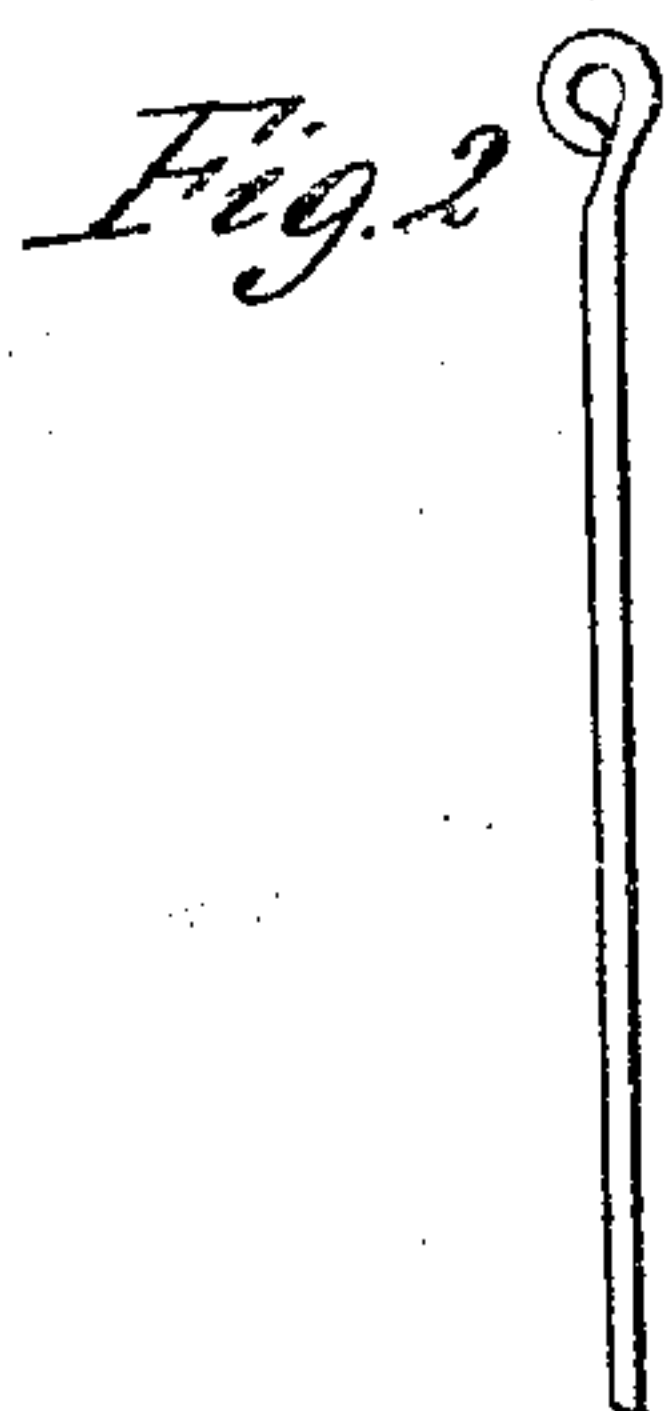
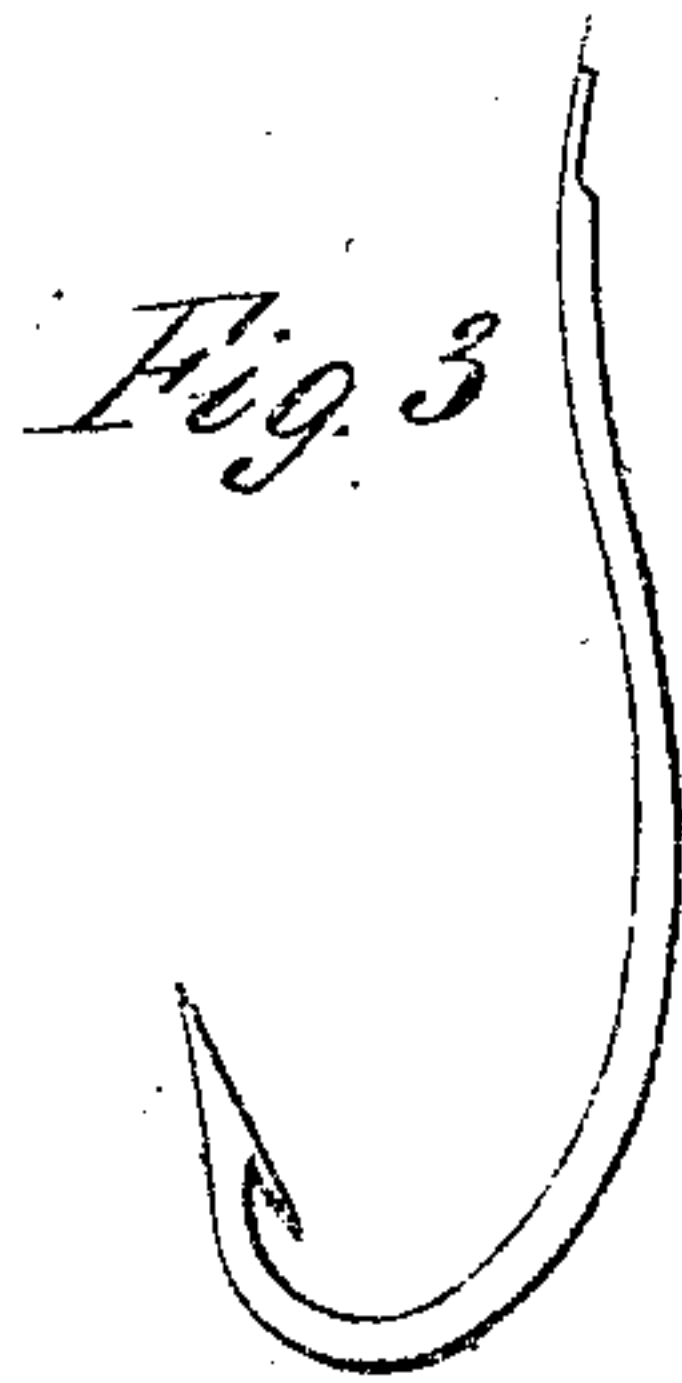


*C. O. Crosby,*  
*Fish Hook,*  
*Nº 59,893.* *Patented Nov. 20, 1866.*



*Witnesses;*  
*John A. Shumway*  
*a. J. Tibbitts*

*Inventor;*  
*C. O. Crosby*  
*by his atty*  
*Edw. E. Earle*

# United States Patent Office.

## IMPROVEMENT IN FISH-HOOKS.

C. O. CROSBY, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO THE FISH-HOOK AND NEEDLE COMPANY, OF SAME PLACE.

*Letters Patent No. 59,893, dated November 20, 1866.*

### SPECIFICATION.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, C. O. CROSBY, of New Haven, in the county of New Haven, and State of Connecticut, have invented a new Improvement in Fish-Hooks; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent in

Figure 1 a side view, and

Figure 2, a front-edge view of a "ringed" hook according to my improvement.

Figures 3 and 4, the same views of a "flatted-head" hook, and in

Figure 5, a section cutting the hook on line *x x*.

My invention relates to an improvement for strengthening the hook without additional metal, and consists in flattening the hook in the bend from below the barb downward; and to enable others skilled in the art to construct my improvement, I will proceed to describe the same as illustrated in the accompanying drawings.

The hook is formed, as to its general shape, in the usual or other known manner. As heretofore constructed, the wire is required to be sufficiently large that the bend may be able to stand the strain which naturally comes upon it, and the wire used is of an even diameter and form; consequently the back of the hook is stronger than is necessary for the strain that comes upon the bend of the hook, in order that the bend may be sufficiently strong. It is to strengthen the hook in the bend so that a smaller size of wire may be used for a hook of the same strength of larger wire, as heretofore constructed. To do this I flatten the wire in the bend from the barb downward, and the corresponding distance up the back of the hook, as denoted in figs. 1 and 2, and in section fig. 5. This widens that part of the hook in the direction in which the strain comes upon the hook, and proportionately strengthens the hook at that part, the only strain being downward, and as, by thus flattening, the bend at that part is strengthened, consequently the wire used may be smaller than that used for a hook of the same strength as commonly constructed.

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

Flattening fish-hooks in the bend, substantially as and for the purpose described.

C. O. CROSBY,

Witnesses:

JOHN H. SHUMWAY,

A. J. TIBBITS.