

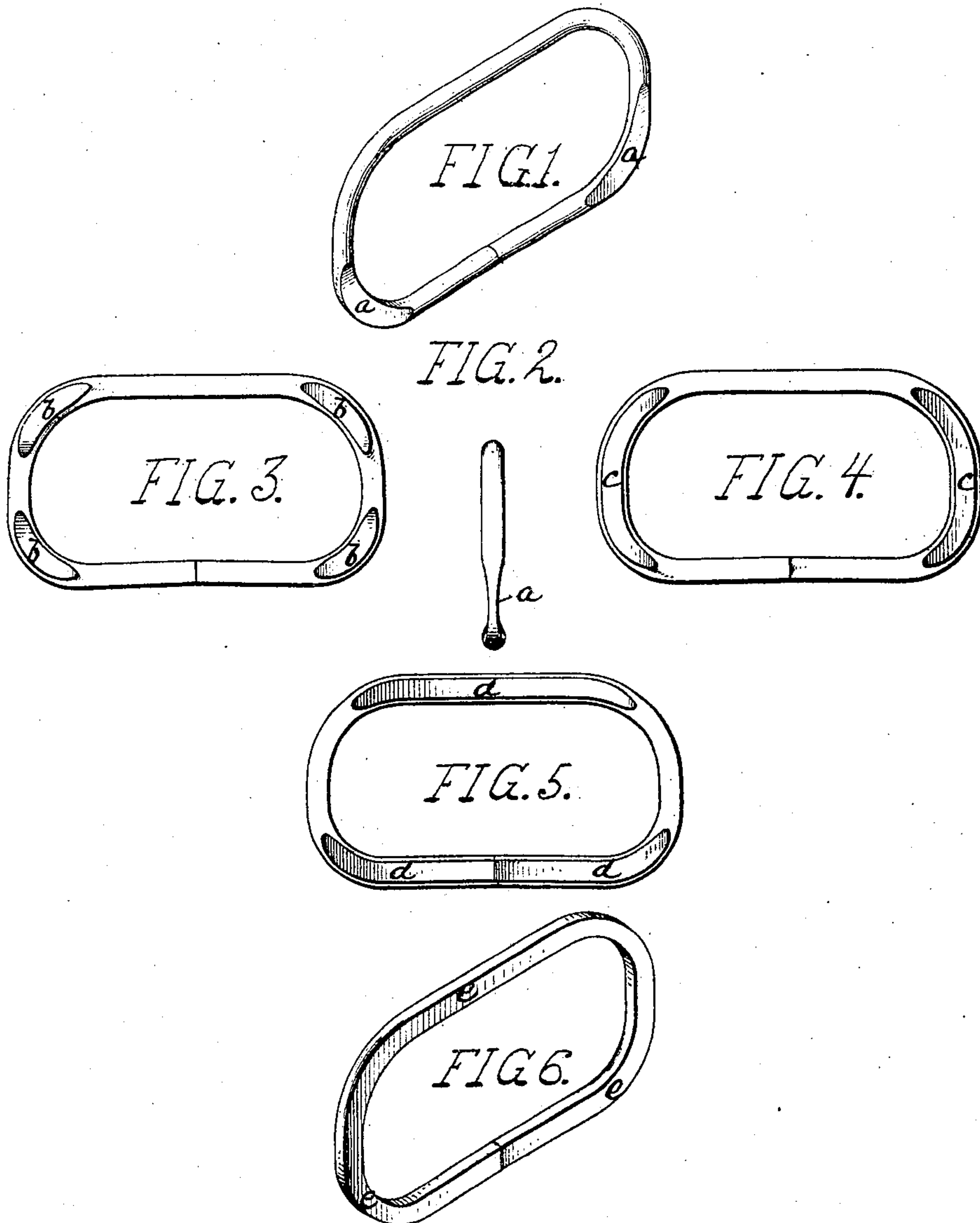
(No Model.)

G. H. PERKINS.

RING OR LINK FOR HANDLES FOR METALLIC CANS.

No. 245,394.

Patented Aug. 9, 1881.



Attest,

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UNITED STATES PATENT OFFICE.

GEORGE H. PERKINS, OF PHILADELPHIA, PENNSYLVANIA.

RING OR LINK FOR HANDLES FOR METALLIC CANS.

SPECIFICATION forming part of Letters Patent No. 245,394, dated August 9, 1881.

Application filed March 19, 1880. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. PERKINS, of the city of Philadelphia, State of Pennsylvania, have invented an Improvement in Rings or Links for Handles for Metallic Cans, of which the following is a specification.

The object of my invention is to provide rings or links for handles for cans and similar vessels, constructed of wire or metallic rods, and so formed as to be of the greatest strength and rigidity consistent with the employment of wire or rods of the least diameter in cross-section.

It has been usual in the manufacture of ring-handles to simply bend the wire into circular, oblong, or other desired form without changing the normal diameter of the wire or disturbing the position of its molecular structure otherwise than that incident to such bending.

My invention consists in so disposing the material of the rings by pressure while the metal is cold, and after it has been bent into the form of a handle, as to bring the fibers into close contact with each other at the points of the ring which are exposed to the greatest strain, and at such points to distribute the metal to the greatest extent in the direction in which the strain acts.

In the drawings, Figures 1, 2, 3, 4, 5, and 6 show different forms of handle embodying my invention, each adapted to withstand strains to which, in different directions, they may be intended to be subjected.

In said figures the rings or handles are shown as flattened at *a*, *b*, *c*, *d*, and *e* respectively, at which points it is designed that the several rings shall be rendered more rigid and strong.

I produce my invention by subjecting the

cold wire or rod, after it has been bent into the form of a handle, to pressure or to direct blows of a hammer or like article at such points of the same as are desired to be made rigid and strong. By this operation the metal of the ring is disposed in such manner that the largest diameter of its cross-section lies in the direction in which the strain is to act upon the article, with the result that the ring or handle is rendered capable of resisting strains, not only by reason of the mechanical position of its body, but also by reason of the increased close and compact condition of the fibers of the iron.

It will therefore be readily understood that wire or rods of less diameter may be used in the manufacture of handles in accordance with my invention than have heretofore been employed to make similar handles.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

A new article of manufacture, a handle for cans, consisting of a wire or rod bent into suitable form, and having the metal of the portion thereof which is intended to resist strains flattened by pressure or blows while cold, whereby the fibers of such flattened portion are brought into close and rigid contact, and such flattened portion presents its greatest diameter in the direction in which the strain is to be exerted upon the same, substantially as shown and described.

In testimony whereof I have hereunto signed my name this 14th day of February, A. D. 1880.

GEORGE H. PERKINS.

In presence of
J. BONSALE TAYLOR,
C. B. TAYLOR.