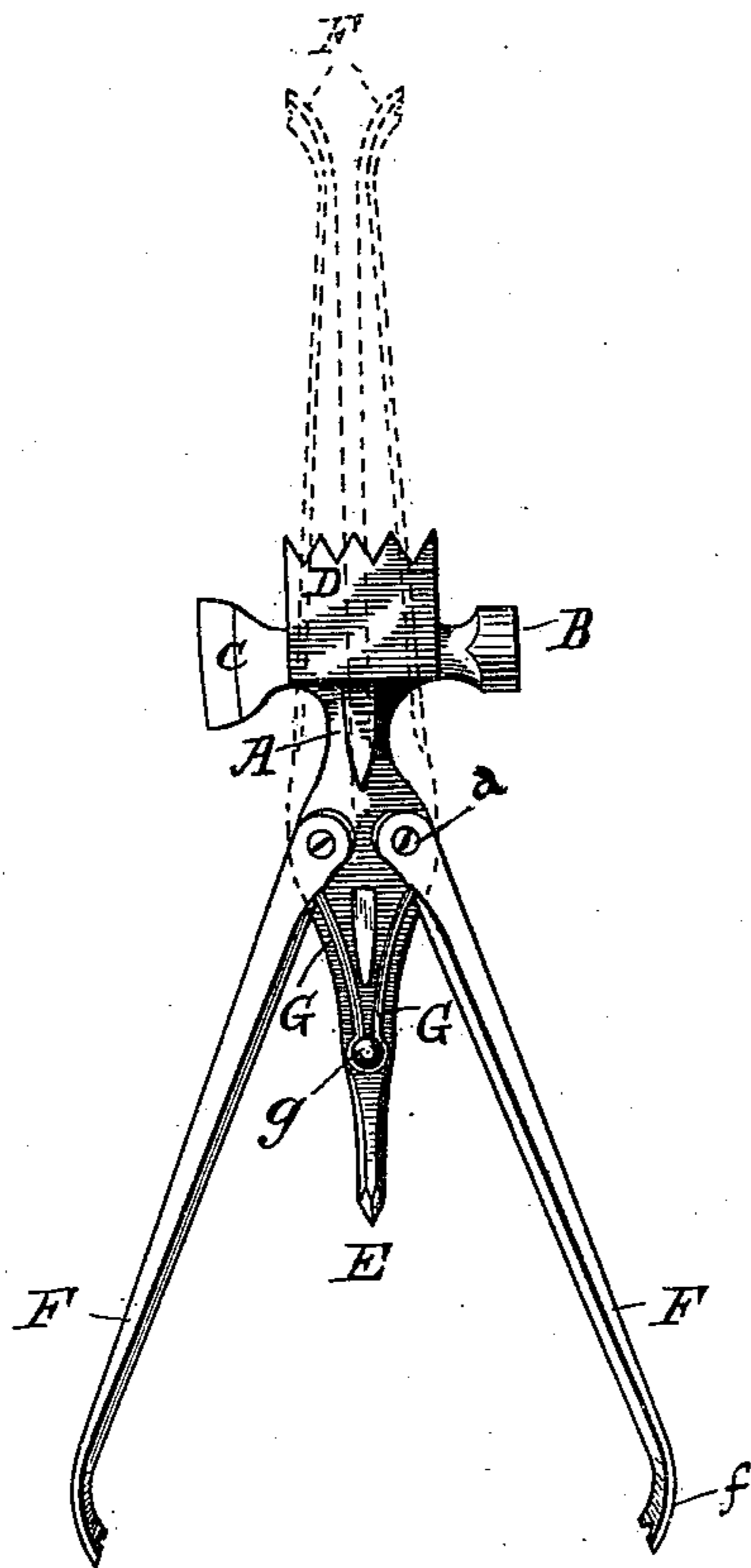


(No Model.)

F. R. WOODWARD.
COMBINATION ICE TOOL.

No. 466,549.

Patented Jan. 5, 1892.



Witnesses

Wm. Nelson.

W.B. Howe.

Inventor

Frank R. Woodward

By his Attorney J.B. Hurst

UNITED STATES PATENT OFFICE.

FRANK R. WOODWARD, OF HILL, NEW HAMPSHIRE.

COMBINATION ICE-TOOL.

SPECIFICATION forming part of Letters Patent No. 466,549, dated January 5, 1892.

Application filed May 4, 1891. Serial No. 391,446. (No model.)

To all whom it may concern:

Be it known that I, FRANK R. WOODWARD, a citizen of the United States, residing at Hill, in the county of Merrimac and State of New Hampshire, have invented certain new and useful Improvements in Combination Ice-Tools; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention comprises various ice preparing or cutting tools, the object being to combine several tools in the one for the purpose of economy and convenience.

The invention will be fully set forth in the following specification and claim and clearly illustrated in the accompanying drawing, forming a part thereof, in which my improved tool is shown in elevation.

The tool may be composed of three parts; but I prefer to use a spring, as shown, which makes a tool of but four parts, combining five uses to which it is adapted, and it may be made of steel or iron.

The piece A comprises four different tools, as follows, to wit: The projection B forms a hammer. The opposite projection C forms the hatchet. D represents a serrated chisel, and the end opposite to the chisel composes the ordinary ice-pick E. At a point nearly midway between the chisel and pick are formed ears *a*, to which are pivoted arms F, their free ends *f* being bent inward or toward each other,

thus forming tongs for picking up and carrying small pieces of ice.

To use the pick E, the tongs F must be turned upward, as seen in dotted lines, when they may be used as a handle.

When using the arms F as tongs to pick up pieces of ice for the purpose of washing before placing the same in a pitcher of drinking-water, it is preferable that the arms or tongs F should separate automatically. To this end I prefer to secure a V spring G by means of a rivet or screw *g* to the piece A at the proper point to cause its free ends to bear against either arm F, and thus cause them to assume normally the position seen in full lines.

Having described my invention, what I claim is—

In an ice-tool, an ice-pick provided with ears *a*, serving the purpose of handles for the pick and tongs, and a suitable spring acting against the latter about midway between its ends, and having upon the end opposite to said pick a serrated chisel and at either side thereof a projection, one forming a hammer and the other a hatchet, and suitable arms pivotally connected to said ears *a*, all substantially as and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK R. WOODWARD.

Witnesses:

FRANK PROCTOR,
ALEXIS PROCTOR.