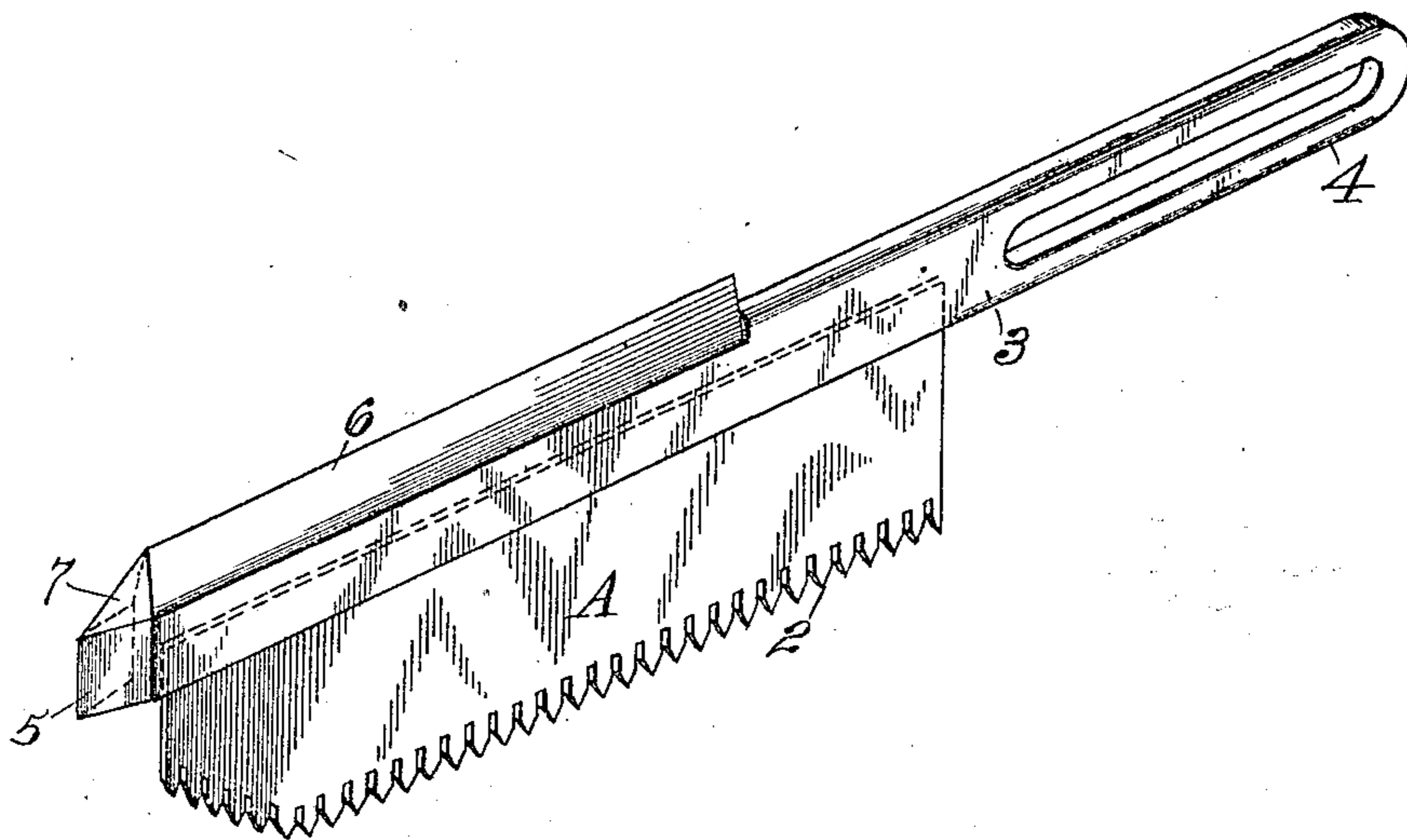


No. 837,172.

PATENTED NOV. 27, 1906.

F. D. WOODFORD.  
ICE CUTTING TOOL.  
APPLICATION FILED JAN. 25, 1906.



Witnesses:

J. E. Maynard  
J. H. Stone

Inventor:

Frank D. Woodford  
By Geo. H. Strong. atty

# UNITED STATES PATENT OFFICE.

FRANK D. WOODFORD, OF SAN JOSE, CALIFORNIA.

## ICE-CUTTING TOOL.

No. 837,172.

Specification of Letters Patent.

Patented Nov. 27, 1906.

Application filed January 25, 1906. Serial No. 297,795.

*To all whom it may concern:*

Be it known that I, FRANK D. WOODFORD, a citizen of the United States, residing at San Jose, in the county of Santa Clara and State of California, have invented new and useful Improvements in Ice-Cutting Tools, of which the following is a specification.

My invention relates to a combined ice saw, ax, and chisel. Its object is to provide a simple, cheap, handy tool for household use for economically cutting up ice and to avoid the waste and annoyance occasioned by the lack of a proper instrument for the purpose.

The invention consists of the parts and the construction and the combination of parts, as hereinafter more fully described and claimed, having reference to the accompanying drawing, in which the figure is a perspective view of my invention.

A represents a saw-blade, having suitable teeth 2 and set into the handle 3, said handle being recessed for this purpose. This handle consists of a bar of metal extending the full length of the saw-blade to reinforce and stiffen the latter and having a handhold extension 4 at one end and a tapered chisel extension 5 at the other end, while its back is suitably beveled and sharpened to provide a cutting edge or ax or hatchet portion 6. This cutting or hatchet portion 6 may be of any suitable length.

Preferably the corner of the bar where the ax or hatchet portion 6 runs into the chisel portion 5 is cut away and beveled, as at 7, to narrow the chisel-point and give the latter a suitable straight cutting edge.

With this tool it is possible to cut a piece of ice just the desired size without waste or trouble. The cut is started with the saw and completed with either the chisel part 5 or the hatchet part 6.

The handle, ax, and chisel being all forged from one piece and the blade being of the

commonest construction renders the manufacture of these tools comparatively inexpensive. As the blade is supported rigidly its entire length by the handle, there is no chance of the blade buckling.

The entire tool weighs only a few ounces.

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

1. An ice-cutting tool comprising a handle portion provided with a longitudinally-extending recess; a blade fixed to the handle and adapted to form the initial cut in the ice, a saw-blade projecting from the handle in a direction opposite to the projection of the first blade, said saw-blade having the entire length of its back edge fitting said recess, said saw-blade adapted to engage the groove or channel cut in the ice by said first blade, and a chisel-point member on the handle adapted to detach blocks of ice partially severed by the saw-blade.

2. An ice-cutting tool having a handle portion with blades projecting therefrom in opposite directions one of said blades having saw-teeth and the other blade adapted to make a channel or groove in the ice for the reception of the saw-teeth, said handle having a longitudinally-extending recess in which the back edge of the saw-blade is directly seated, and a third member rigid with the handle and having a beveled cutting-point whose edge is arranged at right angles to the length of the handle, said third member adapted to detach blocks of ice severed along the sides by the saw-blade.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

FRANK D. WOODFORD.

Witnesses:

GEO. A. LAMB,  
S. J. WHITE.