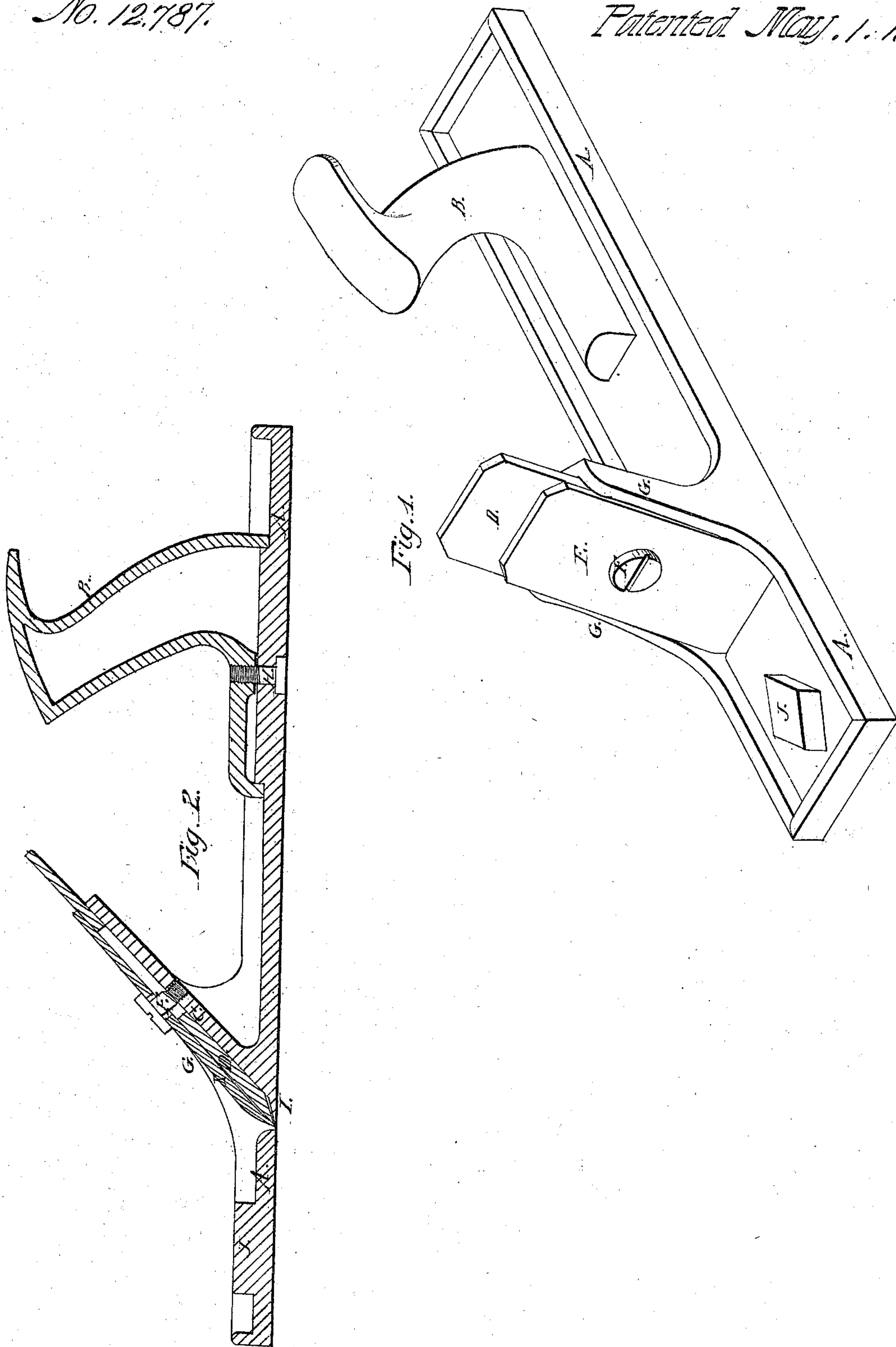


G. E. Davis,
Bench Plane.

No. 12,787.

Patented May. 1. 1855.



UNITED STATES PATENT OFFICE.

GEO. E. DAVIS, OF LOWELL MASSACHUSETTS.

BENCH-PLANE STOCK.

Specification of Letters Patent No. 12,787, dated May 1, 1855.

To all whom it may concern:

Be it known that I, GEORGE E. DAVIS, of Lowell, county of Middlesex and State of Massachusetts, have invented a new and useful iron plane-stock and a new method of attaching the cutting-irons to the stocks to be used by carpenters and woodworkmen generally to be used and adopted instead of the old wood plane, molding and other tools which have been heretofore used; and I hereby declare that the following is a full, clear, and exact description of the manner of making and using the same, when taken in connection with the accompanying drawings and letters of reference marked thereon, in which—

Figure 1, denotes a perspective view. Fig. 2, a longitudinal and vertical section through the center of the same.

The nature of my invention consists in constructing the main body of planes, molding tools, &c., of metal, which being very thin, presents little or no impediment to the shavings passing out as they are cut from the wood, using an iron or wood handle attached to these planes. By means of the lower portion of the plane stock thus made, the hand of the operator is very near the face of the plane when it is used and consequently equally near the face of the stock which is being dressed. And my invention further consists in securing the cutting irons to the iron or other plane or tool stock, by means of a single screw (instead of the old chip) which screw secures both the cap and the cutting iron together, and both of them to the iron tool or plane stock, and by forming a lip in the back part of the throat so as to fill it and thus give a smooth even surface to the face of the plane, all as hereafter described.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct a malleable iron plane stock as seen at A, A, of the drawings, to this stock I attach a handle which may be made of iron or wood as seen at B, and this is attached to the plane stock by the screw H. On the upper side of the plane stock I form a projection as seen at C at each side of which is formed, a projection as seen at G, so as to receive the cutting iron,

which differs from all other plane irons in being constructed and attached to the plane 55 as follows, both the cutting iron D and the cap E being secured to each other and to the plane stock G one screw as seen at F which is effected by forming an oblong slot in the cutting iron about one inch long, and wide 60 enough to receive the screw, and through which the screw passes, this slot being for the purpose of receiving this screw, and also of allowing the cutting iron to be moved down as it wears in using, in the throat of 65 the plane immediately back of the cutting iron, I form a lip as seen at I, so as to fill the recess caused by the bevel on the edge of the plane iron in the ordinary plane, thereby preventing its catching, and filling with por- 70 tions of wood, as it is used, and presenting a smooth surface to the wood.

At J can be seen the "start" which is for the purpose of starting the iron back or upwards when desired. 75

To use my invention of improved plane I first set the proper edge upon the cutting iron, then place this iron into its position in the plane stock then properly place the cap in its position upon the cutting iron, 80 and then place the screw F in its position and turn it to a bearing, by a screw driver or otherwise and the plane is ready for use. This same description will answer for the single cutting iron, excepting the descrip- 85 tion of the cap, the use of molding tools being similar to the previous description for planes.

Having thus described my invention what I claim as my invention and wish to secure 90 by Letters Patent, is—

The metal plane stocks having a formation of a lip I in the back part of its throat so as to fill the recess which would otherwise be below the level of the cutting irons so as 95 to present a continuous smooth surface to the plane excepting the edge of the cutting irons and throat forward of them, for the outward passage of the shavings essentially in the manner and for the purposes set 100 forth.

GEO. E. DAVIS.

Witnesses:

R. N. HAYDEN,
JAMES WILSON.