

Method of manufacturing a hollow blade that includes a recessed tip cap and method of repairing such a blade

ABSTRACT

The invention relates to a method of manufacturing a hollow metal blade (1), comprising at least one side wall (2, 3) and a recessed tip cap (7), characterized in that:

a) a hollow blade, which comprises at least one side wall (2, 3) and the tip of which is open, is manufactured by casting;

b) a plate of a laminate, comprising at least the metal of the blade and a brazing material, is manufactured;

c) the plate is brazed to the top of the side wall (2, 3) of the blade by pressing the plate onto the blade; and

d) the recessed tip cap (7), comprising at least a bottom (8) and at least a squealer tip (9, 10), is machined in the plate.

Thanks to the invention, since the blade is manufactured beforehand with an open tip, the core can be held in place, during the casting operation, by the top, thereby ensuring great precision in the positioning of the core and therefore in the thickness of the walls (2, 3) of the blade.

The invention also relates to a method of repairing a blade (1).

Figure for the abstract: Figure 1.