

Title (en)

METHOD FOR MANUFACTURING A PLURALITY OF GUIDE VANES SECTORS USING CASTING

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER MEHRZAHL VON LEITSCHAUFELABSCHNITTEN DURCH GIESSEN

Title (fr)

PROCEDE DE FABRICATION D'UNE PLURALITE DE SECTEURS DE DISTRIBUTEUR PAR FONDERIE

Publication

**EP 3953082 A1 20220216 (FR)**

Application

**EP 20731165 A 20200320**

Priority

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Abstract (en)

[origin: WO2020208325A1] The invention relates to a method for manufacturing a plurality of monocrystalline guide vanes sectors each comprising at least a first blade extending between two platforms, using a lost-wax casting technique. The method involves pouring molten metal into a plurality of ceramic moulds (100) clustered around an axis (A) and controlled solidification of the poured metal in a furnace comprising a radiating heating element configured to be positioned around the cluster, a metal solidification front progressing within each mould in a direction (DS) parallel to the axis of the cluster during the course of the controlled solidification. The method is characterized by the presence, in each mould (100), of a second shell separated from a first shell for the moulding of the guide vanes sector and which delimits a second cavity (130) for the moulding of a dummy blade which acts as a heat shield.

IPC 8 full level

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