

Title (en)
APPARATUS AND METHOD FOR PRODUCING A CAST PART FORMED FROM AMORPHOUS OR PARTIALLY AMORPHOUS METAL, AND CAST PART

Title (de)
VORRICHTUNG UND VERFAHREN ZUR HERSTELLUNG EINES AUS EINEM AMORPHEN ODER TEILAMORPHEN METALL GEBILDETEN GUSSTEILS SOWIE GUSSTEIL

Title (fr)
DISPOSITIF ET PROCÉDÉ DE FABRICATION D'UNE PIÈCE COULÉE RÉALISÉE À PARTIR D'UN MÉTAL AMORPHE OU PARTIELLEMENT AMORPHE ET PIÈCE COULÉE

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Application
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Abstract (en)
[origin: WO2020002291A1] The invention relates to an apparatus (1; 1a; 1b; 1c; 1d; 1e) for producing a cast part (36) formed from an amorphous or partially amorphous metal, which comprises a cast part mold (3; 3a; 3b; 3c; 3d; 3e) having at least one fill opening (16; 16a; 16b, 41; 16c: 16d; 16e) for introducing a casting material (15; 15a; 15b; 15c; 15d; 15e) forming the cast part (36) and a device for melting the casting material (15; 15a; 15b; 15c; 15d; 15e). The melting device expediently has at least one region (13; 13; 13b; 40, 13c; 13d; 13e) which is provided for melting the casting material (15; 15a; 15b; 15c; 15d; 15e). According to the invention, an apparatus is advantageously created which enables particularly precise introduction of melt energy into the casting material. In one embodiment, the melting device has means for forming at least one electric arc (30; 30a, 39) in the at least one melting region (13; 13; 13b; 40, 13c; 13d; 13e), which particularly comprises at least two electrodes arranged at a distance from each other (32; 32a, 38; 32b; 32c), between which the at least one electric arc (30; 30a, 39) can be formed.

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