

Title (en)

PROCESS FOR MANUFACTURING A MONOCRYSTALLINE CRYSTAL, IN PARTICULAR A SAPPHIRE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES EINKRISTALLINEN KRISTALLS, INSBESONDERE EINES SAPHIRS

Title (fr)

PROCÉDÉ DE FABRICATION D'UN CRISTAL MONOCRISTALLIN, EN PARTICULIER UN SAPHIR

Publication

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Application

EP 21840774 A 20211228

Priority

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Abstract (en)

[origin: WO2022140807A1] The invention relates to a process for manufacturing a monocrystalline crystal, in particular a sapphire, wherein a monocrystalline seed crystal is placed in a base region of a crucible (3) having a cylindrical jacket-type crucible wall (4) or forms a base of the crucible (3), and a crystallographic c-axis of the seed crystal is oriented according to a longitudinal crucible axis extending in the vertical direction of the crucible wall, whereupon a basic material is placed over the seed crystal in the crucible and is fused such that a crystal grows continually in the direction of the c-axis as a result of crystallization at a boundary layer between the fused basic material and the seed crystal.

IPC 8 full level

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Citation (search report)

See references of WO 2022140807A1

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