

Title (en)

METHOD FOR MANUFACTURING A SINGLE-PIECE MAGNETOCALORIC ELEMENT, MAGNETOCALORIC ELEMENT OBTAINED AND THERMAL APPARATUS INCLUDING AT LEAST ONE SUCH MAGNETOCALORIC ELEMENT

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES EINSTÜCKIGEN MAGNETOKALORISCHEN ELEMENTS, DADURCH ERHALTENES MAGNETOKALORISCHES ELEMENT UND THERMISCHE VORRICHTUNG MIT MINDESTENS EINEM SOLCHEN MAGNETOKALORISCHEN ELEMENT

Title (fr)

PROCEDE DE FABRICATION D'UN ELEMENT MAGNETOCALORIQUE MONOBLOC, ELEMENT MAGNETOCALORIQUE OBTENU ET APPAREIL THERMIQUE COMPORTANT AU MOINS UN TEL ELEMENT MAGNETOCALORIQUE

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Application

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Abstract (en)

[origin: WO2017042266A1] The present invention relates to a method for manufacturing a single-piece magnetocaloric element, wherein at least one supporting part (SI) is manufactured from at least one mechanically strong material and said supporting part (SI) is at least partially covered with at least one material having a magnetocaloric effect. The covering step consists in mechanically joining, or even intimately bonding, the magnetocaloric material to the supporting part, so as to manufacture a magnetocaloric element that takes the form of a single-piece part. The magnetocaloric element obtained thus includes a mechanical core that ensures the mechanical strength thereof and a thermal surface providing it with the ability to exert a magnetocaloric effect.

IPC 8 full level

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