

Title (en)
POLYCRYSTALLINE MAGNETOCALORIC MATERIALS

Title (de)
POLYKRISTALLINE MAGNETOKALORISCHE MATERIALIEN

Title (fr)
MATÉRIAUX MAGNÉTOCALORIQUES POLYCRISTALLINS

Publication
EP 2467858 B1 20150218 (DE)

Application
EP 10744924 A 20100817

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Abstract (en)
[origin: US2011041513A1] What are described are polycrystalline magnetocaloric materials of the general formula $Mn_aCo_bGe_cAx$ with A, B or C $0 \leq x \leq 0.5$, $0.9 \leq a \leq 1.1$, $0.9 \leq b \leq 1.1$, $0.9 \leq c \leq 1.0$, where up to 30 mol % of the Mn or Co may be replaced by Fe, Ni, Cr, V or Cu or up to 30 mol % of the Mn, Co or Ge may be replaced by vacancies, in which phases of the orthorhombic $TiNiSi$ structure type and of the hexagonal Ni_2In structure type are present at a temperature below $-40^\circ C$.

IPC 8 full level
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