

Title (en)

COLD-ACCUMULATING MATERIAL AND COLD-ACCUMULATING REFRIGERATOR

Title (de)

KÄLTESPEICHERNDES MATERIAL UND KÄLTESPEICHERNDER KÜHLSCHRANK

Title (fr)

MATERIAU ACCUMULATEUR DE FROID ET REFRIGERATEUR A ACCUMULATION DE FROID

Publication

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Application

EP 98947963 A 19981020

Priority

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Abstract (en)

A cold accumulating material comprising magnetic substance expressed by the general formula: $RCu_{1-x}M_1+x$ wherein R denotes at least one of rare earth element selected from the group consisting of Y, La, Ce, Pr, Nd, Pm, Sm, Eu, Gd, Tb, Dy, Er, Ho, Tm and Yb, M denotes at least one element selected from the group consisting of Ag, Au, Al, Ga, In, Ge, Sn, Sb, Si, Bi, Ni, Pd, Pt, Zn, Co, Rh, Ir, Mn, Fe, Ru, Cr, Mo, W, V, Nb, Ta, Ti, Zr and Hf, and wherein Ni and Ge are not simultaneously selected, and x in atomic ratio satisfies a relation: $-0.95 \leq x \leq 0.90$. According to the above structure, there can be provided a cold accumulating material and a refrigerator using the cold accumulating material capable of exhibiting a remarkable and stable refrigerating performance at an extremely low temperature for a long time. <IMAGE>

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CPC (source: EP)

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Cited by

EP1016701A3; EP1854859A4; EP3617288A4; US6363727B1; WO2007036729A1; WO2006092871A1; US8109100B2; US11370949B2

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