

Title (en)
PROCESS FOR PREPARING FERROMAGNETIC ACICULAR IRON PARTICLES, AND THEIR USE

Publication
EP 0024694 A3 19810826 (DE)

Application
EP 80104979 A 19800821

Priority
DE 2935358 A 19790901

Abstract (en)
[origin: US4344791A] A process for the manufacture of acicular ferromagnetic iron particles by heating a goethite, provided with a shape-stabilizing surface coating, at 250 DEG -450 DEG C. in an atmosphere containing water vapor at a partial pressure of not less than 30 mbar, to give alpha-iron(III) oxide, and reducing this material with hydrogen at 275 DEG -425 DEG C., and the use of the iron particles thus obtained as magnetic material in the production of magnetic recording media.

IPC 1-7
H01F 1/06; **B22F 9/22**; **G11B 5/70**

IPC 8 full level
B22F 9/22 (2006.01); **C09D 5/23** (2006.01); **C09D 7/12** (2006.01); **G11B 5/70** (2006.01); **G11B 5/706** (2006.01); **H01F 1/06** (2006.01)

CPC (source: EP US)
B22F 9/22 (2013.01 - EP US); **H01F 1/061** (2013.01 - EP US); **H01F 1/065** (2013.01 - EP US)

Citation (search report)
• CH 528320 A 19720930 - STAMICARBON [NL]
• [D] FR 2368131 A1 19780512 - BASF AG [DE]

Cited by
US4933004A; EP0105110A3

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DE FR GB NL

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