

Title (en)

EXTREMELY FINE SHAPE MEMORY ALLOY WIRE, COMPOSITE MATERIAL THEREOF AND PROCESS FOR PRODUCING THE SAME

Title (de)

SEHR FEINER DRAHT AUS FORMGEDÄCHTNISLEGIERUNG, DARAUS BESTEHENDES KOMPOSITMATERIAL, SOWIE VERFAHREN ZUR HERSTELLUNG DERSELBEN

Title (fr)

FIL EXTREMEMENT FIN EN ALLIAGE A MEMOIRE DE FORME, MATERIAU COMPOSITE DESTINE A LA FABRICATION DE CE FIL ET PROCEDE DE PRODUCTION ASSOCIE

Publication

**EP 1516936 A1 20050323 (EN)**

Application

**EP 03736030 A 20030604**

Priority

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- JP 2002162287 A 20020604

Abstract (en)

Disclosed is a shape memory alloy wire subjected to a cold drawing work, which comprises a shape memory alloy in a martensitic phase which assumes an austenitic phase or a martensitic phase through phase transformation temperatures, has a diameter of 60  $\mu$ m or less, and has a reverse transformation termination temperature of at least 250 DEG C. By using the alloy wire, a composite material having the alloy wire embedded in a resin having a molding temperature as high as 180 DEG C, such as a glass fiber reinforced resin or a carbon fire reinforced resin, without fixing of both wire ends.

IPC 1-7

**C22C 19/03**; **C22F 1/10**; **C08J 5/04**; **C22C 14/00**

IPC 8 full level

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CPC (source: EP)

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