

New method of "Nano Porous Material"

Fe,Si,C,W,Ti,Cr,Zr,Mo,Ta, their alloys =>Possible !

Summary

A metallic material containing both a second constituent and a third constituent having positive and negative heats of mixing relative to a first constituent, respectively, and including a compound, an alloy or a nonequilibrium alloy having a melting point that is higher than the solidifying point of a metal bath made of the first constituent is placed in the metal bath. The metal bath is controlled to a temperature lower than a minimum value of a liquidus temperature within a range of compositional variations in which the amount of the third constituent in the metallic material decreases down to a point where the metallic material becomes substantially the second constituent so that the third constituent is selectively dissolved into the metal bath.

Effect/Application

Catalyst, Electrode, Filter, Medical material, Sensing material etc

Patent Data Sheet

5678353 (JP)、9,279,186 (US)、112010005201.84 (DE) (T10-043)

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Characteristics

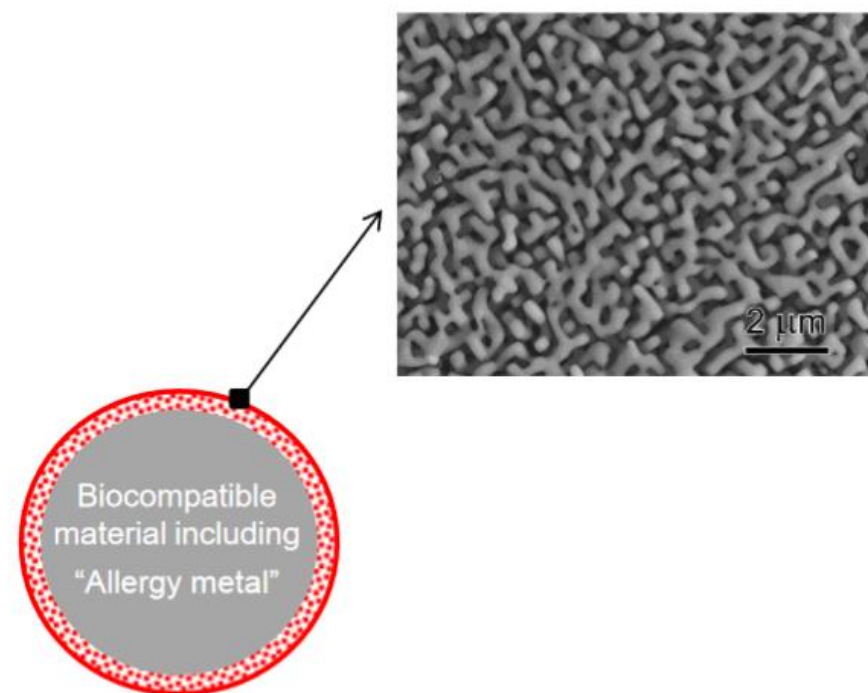


Fig 1 : Operative Example

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