

Title (en)

POWDER-METALLURGICAL PROCESS FOR PRODUCING A SUPERCONDUCTING-FIBRE COMPOSITE MATERIAL

Publication

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Application

EP 80100955 A 19800226

Priority

DE 2909290 A 19790309

Abstract (en)

[origin: US4336065A] A method for manufacturing a composite material by powder metallurgy wherein a starting material comprised of at least one body-centered cubic metal powder component, and contaminated by oxygen in its bulk or on its surface is mixed with a less noble supplemental component having a greater binding enthalpy for oxygen in powder form or as an alloy whereby the oxygen contaminant becomes bound to the supplemental component by internal solid-state reduction. The composite mixture is then deformed in at least one dimension to form ribbons or fibers thereof.

IPC 1-7

C22C 1/04; C22C 1/10; C22C 9/00

IPC 8 full level

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CPC (source: EP US)

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Y10S 505/823 (2013.01 - EP)

Citation (examination)

- HANDBOOK of Chemistry and Physics, 60th Edition, D-67, D-70, D-72
- Zeitschrift für Metallkunde, Band 65, Mai 1974, Heft 5, Seiten 395 and 396

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