

Title (en)

PROCESS FOR MANUFACTURING A MECHANICALLY ALLOYED COMPOSITE POWDER

Publication

EP 0209179 B1 19881221 (DE)

Application

EP 86201163 A 19860702

Priority

DE 3525056 A 19850713

Abstract (en)

[origin: US4706894A] In a process of producing mechanically alloyed composite powder, a mixture consisting of at least one metallic powder and at least one non-metallic powder or of a plurality of metallic powders is ground in a drum mill in which a large amount of energy is introduced into the material being ground. To obtain composite powders having reproducible properties for mechanical technology, the powders are ground in a centrifugal mill which has a cylindrical grinding drum, which rotates about its axis and revolves on an orbit about a stationary axis that is parallel to the axis of the drum. Said revolution is effected at an angular velocity that has a constant ratio to the angular velocity at which the drum rotates about its own axis.

IPC 1-7

B22F 9/04; **B02C 17/14**

IPC 8 full level

B02C 17/14 (2006.01); **B22F 9/04** (2006.01)

CPC (source: EP US)

B02C 17/14 (2013.01 - EP US); **B22F 9/04** (2013.01 - EP US); **B22F 2009/041** (2013.01 - EP US)

Cited by

DE3925973A1; DE3741119A1; DE3813224A1; DE4418598A1; DE4418598C2; EP0510918A3; US6016981A

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