

Title (en)

PROCESS FOR PRODUCING METALLIC OBJECTS, IN PARTICULAR PROJECTILES, BY INCORPORATING DISCRETE PARTICLES IN A METALLIC MATRIX MATERIAL

Publication

**EP 0012323 B1 19811111 (DE)**

Application

**EP 79104863 A 19791204**

Priority

DE 2852659 A 19781206

Abstract (en)

[origin: US4362563A] A process for producing a formed member, and a formed member which includes spherical fragments embedded in a metallic matrix is effected through cold pressure rolling. The spheres are arranged in the interspace between a basic support member, which may be a thin-walled inner casing, and an outer casing. Forging of the outer casing causes the material of the support member and the outer casing to be pressed into the spaces between the spheres, densifies the support member and the outer casing, and prestresses the outer casing and spheres, thus allowing the inner casing to be extremely thin-walled. The prestressing of the spheres and outer casing, together with the inner casing imparts a high degree of energy to the casing fragments and to the spheres, affords economies in manufacture and a substantial increase in fragmenting energy at detonation of the formed member.

IPC 1-7

**B21K 25/00**; **B21D 22/14**; **F42B 13/48**

IPC 8 full level

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CPC (source: EP US)

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**EP 0012323 A1 19800625**; **EP 0012323 B1 19811111**; AT E377 T1 19811115; DE 2852659 A1 19800619; IL 58859 A0 19800331; IL 58859 A 19820331; US 4362563 A 19821207

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