

Title (en)

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

Publication

EP 0012322 B1 19820106 (DE)

Application

EP 79104862 A 19791204

Priority

DE 2852658 A 19781206

Abstract (en)

[origin: US4292829A] A process for producing a formed member, and a formed member which includes spherical fragments embedded in a metallic matrix is effected through cold annular or round forming. The spheres are arranged in the interspace between a basic support member, which may be a thin-walled inner casing, and an outer casing. Working 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

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CPC (source: EP US)

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