

Title (en)

Non lethal projectile for a firearm, material and method for making such a projectile

Title (de)

Nicht lethales Geschoss, Material und Verfahren zur Herstellung eines solchen Geschosses

Title (fr)

Projectile non létal pour arme à feu, matériau et procédé de fabrication d'un tel projectile

Publication

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Application

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Priority

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Abstract (en)

[origin: EP1008829A1] Nonlethal firearm projectile is made of a soft elastic composite material (I) comprising a particulate metal filler dispersed in a crosslinked polybutadiene matrix, where (I) has a Shore hardness of 2-30 and a density of 1.0-2.9, the filler has a density of 4-22 and the crosslinked polybutadiene has chains with a number-average molecular weight (Mn) of 500-10,000. Independent claims are also included for: (1) A process for producing the projectile, comprising: (a) mixing a liquid polybutadiene having reactive terminal groups and an Mn of 500-10,000 with a crosslinking agent and the filler; (b) introducing the resulting heat-curable paste into a mold; (c) crosslinking the polybutadiene by heating; and (d) removing the projectile from the mold; (2) a composite material as defined for (I); (3) a cylindrical firearm cartridge containing at least one projectile as above.

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