

Title (en)

SELF-GLOWING MATERIALS, TRACER AMMUNITION, AND ILLUMINATION DEVICES

Title (de)

SELBSTLEUCHTENDE MATERIALIEN, LEUCHTSPURMUNITION SOWIE BELEUCHTUNGSVORRICHTUNGEN

Title (fr)

MATÉRIAUX AUTO-INCANDESCENTS, MUNITION TRACEUSE ET DISPOSITIFS D'ÉCLAIRAGE

Publication

EP 3548834 B1 20210811 (EN)

Application

EP 17829364 A 20171201

Priority

- US 201662428654 P 20161201
- US 201615366269 A 20161201
- US 201615366323 A 20161201
- US 2017064360 W 20171201

Abstract (en)

[origin: WO2018102784A1] A self-glowing solid material comprises a man-made metal mixture containing at least one rare earth metal and an oxide of iron. The material is inducible by flame initiation to self-glow with yellow-to-red colors (577-to-700 nanometer wavelengths). A stealth tracer ammunition comprises a projectile body having a tip and a base, and a solid pellet disposed in the base. The pellet may be made from the above-mentioned self-glowing solid material or another suitable material. The pellet becomes incandescent as a result of being heated when the ammunition is fired. The incandescent pellet emits a glow observable only from behind when the ammunition travels downrange after being fired.

IPC 8 full level

F42B 12/38 (2006.01)

CPC (source: EP)

F42B 12/38 (2013.01); **F42B 12/382** (2013.01)

Citation (examination)

US 9347753 B1 20160524 - HORCH MATTHEW T [US], et al

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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