

Title (en)

Active material for an infra-red decoy with area effect which emits spectral radiation upon combustion

Title (de)

Wirkmasse für ein beim Abbrand spektral strahlendes Infrarotscheinziel mit Raumwirkung

Title (fr)

Masse active pour une cible à rayonnement infrarouge à émission spectrale lors d'une combustion avec effet spatial

Publication

**EP 2530064 B1 20190828 (DE)**

Application

**EP 12004096 A 20120526**

Priority

DE 102011103483 A 20110603

Abstract (en)

[origin: EP2530064A2] Effective mass for burning spectrally radiating pyrotechnic infrared decoy with spatial effect, comprises a fuel, an oxidizing agent, a binder, and a carbon-containing substance, where the fuel and the oxidizing agent are selected such that the oxidizing agent oxidizes the fuel after its ignition in an exothermic primary reaction with the formation of a temperature of at least 1000 K, and the carbon-containing substance is selected such that the substance is pyrolyzed in endothermal manner by the heat released during the primary reaction, and releases gas that is combustible in air. Effective mass for burning spectrally radiating pyrotechnic infrared decoy with spatial effect, comprises a fuel, an oxidizing agent, a binder, and a carbon-containing substance, where the fuel and the oxidizing agent are selected such that the oxidizing agent oxidizes the fuel after its ignition in an exothermic primary reaction with the formation of a temperature of at least 1000 K, and the carbon-containing substance is selected such that the substance is pyrolyzed in endothermal manner by the heat released during the primary reaction, and releases gas that is combustible in air. The redox potential of the fuel is at least higher than the redox potential of carbon. The substance and its quantitative proportion of the effective mass are selected such that the temperature of the effective mass after its ignition does not exceed 2000 K due to heat removal by endothermic pyrolysis. The effective mass is composed such that it releases solid particles during its combustion.

IPC 8 full level

**C06C 15/00** (2006.01)

CPC (source: EP)

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