

Title (en)

Material with an additive for a spectral decoy flare which burns the material

Title (de)

Wirkmasse für ein beim Abbrand der Wirkmasse spektral strahlendes Scheinziel mit einem Zusatzstoff

Title (fr)

Masse active pour une cible fictive à rayonnement spectral lors de la combustion de la masse active avec un adjuvant

Publication

**EP 2698360 A3 20170816 (DE)**

Application

**EP 13004007 A 20130812**

Priority

DE 102012016452 A 20120817

Abstract (en)

[origin: EP2698360A2] Active mass comprises an additive distributed in the active mass, carbon and hydrogen atoms-containing fuel and an oxygen atom-containing oxidizing agent for the fuel. The additive increases the ratio of the intensity of radiation emitted during the combustion of the active mass in the wavelength range of 3.7-5.1  $\mu\text{m}$  to an intensity of radiation emitted during the burning of the active mass in the wavelength range of 1.9-2.3  $\mu\text{m}$ . The amount of the oxidizing agent is dimensioned so that oxidizing agent is not sufficient for complete oxidation of the carbon. Active mass comprises an additive distributed in the active mass, carbon and hydrogen atoms-containing fuel and an oxygen atom-containing oxidizing agent for the fuel. The additive increases the ratio of the intensity of radiation emitted during the combustion of the active mass in the wavelength range of 3.7-5.1  $\mu\text{m}$  to an intensity of radiation emitted during the burning of the active mass in the wavelength range of 1.9-2.3  $\mu\text{m}$ . The amount of the oxidizing agent is dimensioned so that oxidizing agent is not sufficient for complete oxidation of the carbon. The additive is a catalyst catalyzing the redox reaction, which is present in the form of particles.

IPC 8 full level

**C06B 23/00** (2006.01); **C06B 29/22** (2006.01); **C06C 15/00** (2006.01)

CPC (source: EP US)

**C06B 23/007** (2013.01 - EP US); **C06B 29/22** (2013.01 - EP US); **C06C 15/00** (2013.01 - EP US)

Citation (search report)

- [X] US 6123790 A 20000926 - LUNDSTROM NORMAN H [US], et al
- [X] DE 102010053783 A1 20120614 - DIEHL BGT DEFENCE GMBH & CO KG [DE]
- [X] US 6427599 B1 20020806 - POSSON PHILIP L [US], et al
- [IA] JP H08151288 A 19960611 - OTSUKA CHEMICAL CO LTD
- [A] EP 1816113 A1 20070808 - DAICEL CHEM [JP]
- [A] US 2010212221 A1 20100826 - ARADI ALLEN A [US]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2698360 A2 20140219; EP 2698360 A3 20170816; EP 2698360 B1 20191204**; AU 2013213696 A1 20140306; AU 2013213696 B2 20170810; DE 102012016452 A1 20140220; DE 102012016452 B4 20140724; IL 227587 A0 20140331; IL 227587 B 20191031; US 2015047760 A1 20150219; US 9139487 B2 20150922; ZA 201306135 B 20140430

DOCDB simple family (application)

**EP 13004007 A 20130812**; AU 2013213696 A 20130807; DE 102012016452 A 20120817; IL 22758713 A 20130722; US 201313969977 A 20130819; ZA 201306135 A 20130815