

Title (en)

Apparatus and method for producing explosives containing fuse

Title (de)

Vorrichtung und Verfahren zum Herstellen von Zündmittel enthaltenden Sprengmitteln

Title (fr)

Dispositif et procédé pour fabriquer des explosifs contenant un produit incendiaire

Publication

**EP 2535277 B1 20141224 (DE)**

Application

**EP 11004935 A 20110616**

Priority

EP 11004935 A 20110616

Abstract (en)

[origin: EP2535277A1] The portioning and packing device comprises a filling pipe (20) connected to a conveyor (10), which is set up in such way that a reserve supply of a tubular packing sleeve is provided so that the tubular packing sleeve is pulled off the filling pipe with an explosive (W) ejected through the filling pipe, and a closing device located downstream of the filling pipe, which is set up in such way to constrict the filled packing sleeve locally to a hose plait during the filling process and to close around the hose plait with a closure unit. The portioning and packing device comprises a filling pipe (20) connected to a conveyor (10), which is set up in such way that a reserve supply of a tubular packing sleeve is provided so that the tubular packing sleeve is pulled off the filling pipe with an explosive (W) ejected through the filling pipe, and a closing device located downstream of the filling pipe, which is set up in such way to constrict the filled packing sleeve locally to a hose plait during the filling process and to close around the hose plait with a closure unit. The filling pipe exhibits an introduction unit that is set up in such way to introduce the detonating device into the explosive. The introduction unit is a supply pipe (40) routed coaxially in the filling pipe, and has an initial orifice opening located outside the filling pipe. A diameter of the supply pipe is smaller than a diameter of the filling pipe by a factor of 3. The supply pipe enters into the filling pipe in an area between the conveyor and the orifice of the filling pipe. A section of the supply pipe routed coaxially in the filling pipe: progresses from an inlet point and into the filling pipe in the direction of the filling pipe orifice; ends within the filling pipe; and protrudes out from the orifice of the filling pipe. The supply pipe in the area of the inlet point into the filling pipe exhibits a direction change. The filling pipe exhibits: a direction change; a first filling pipe section; and a second filling pipe section whose axis is parallel to the first filling pipe section and a third filling pipe section, which joins the first and second filling pipe sections to one another and has a centre axis that intersects the centre axes of the first and second filling pipe sections. The supply pipe enters into the third filling pipe section in such way that the supply pipe progresses coaxially to the first filling pipe section. A reserve supply of detonating cord is provided in the area of the filling pipe. The detonating cord is fixed in a sausage-shaped packing by the closing device, is accessible from outside in the area of the fixing, and is filled into the tubular packing simultaneously with the explosive. An independent claim is included for a process for the production of explosives containing detonating devices.

IPC 8 full level

**B65B 9/15** (2006.01); **C06B 21/00** (2006.01); **F42B 3/087** (2006.01); **F42B 33/02** (2006.01)

CPC (source: EP US)

**B65B 9/15** (2013.01 - EP US); **C06B 21/00** (2013.01 - EP US); **F42B 3/087** (2013.01 - EP US); **F42B 33/0264** (2013.01 - EP US); **F42B 33/0271** (2013.01 - EP US)

Cited by

CN112902772A

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

DOCDB simple family (publication)

**EP 2535277 A1 20121219**; **EP 2535277 B1 20141224**; AU 2012203458 A1 20130110; AU 2012203458 B2 20141211; BR 102012014704 A2 20131001; BR 102012014704 B1 20200915; CN 102863300 A 20130109; CN 102863300 B 20160210; PL 2535277 T3 20150430; RU 2012125044 A 20131220; RU 2532980 C2 20141120; US 2012318122 A1 20121220

DOCDB simple family (application)

**EP 11004935 A 20110616**; AU 2012203458 A 20120614; BR 102012014704 A 20120615; CN 201210338684 A 20120618; PL 11004935 T 20110616; RU 2012125044 A 20120615; US 201213524764 A 20120615