

Title (en)

E-EXTINGUISHING LANCE FOR FIREFIGHTING IN ELECTRICALLY CHARGED OBJECTS

Title (de)

E-LÖSCHLANZE ZUR BRANDBEKÄMPFUNG BEI ELEKTRISCH GELADENEN OBJEKTEN

Title (fr)

LANCE À INCENDIE D'ORIGINE ÉLECTRIQUE POUR LUTTER CONTRE LES FEUX D'OBJETS CHARGÉS ÉLECTRIQUEMENT

Publication

EP 3658242 C0 20230830 (DE)

Application

EP 18755139 A 20180720

Priority

- DE 202017104411 U 20170724
- EP 2018069728 W 20180720

Abstract (en)

[origin: WO2019020507A1] The invention relates to an E-extinguishing lance (10) for extinguishing burning objects, which has a holding section having a grip part (11) for an operator, an extinguishing agent feed having a coupling device (12) for the connection of a pressure hose for liquid extinguishing agent, and a tubular extinguishing section (13) adjoining the holding section and possibly the coupling device, from the free end of which extinguishing agent under pressure can be applied into a burning object, the grip part being electrically insulating for voltages $U > 100V$ and the extinguishing section tapering to a point having a narrowed flow cross section for extinguishing agent to be led through, is characterized in that the grip part is also electrically insulating for voltages $U \geq 500V$, in that the extinguishing section is made from a material which has a tensile strength R_m that is so high that the material withstands a mechanical stress $\sigma \geq 500 \text{ N/mm}^2$, and which has a melting temperature $t_s \geq 650^\circ\text{C}$, and in that a holding section on the operator-side end has a large area impact plate (14) in extension of the extinguishing section. With this E-extinguishing lance, both minimum requirements relating to protection against thermal hazards and also to protection against mechanical overloads and also to protection against electrical hazards are safely met.

IPC 8 full level

A62C 31/22 (2006.01)

CPC (source: EP)

A62C 31/22 (2013.01)

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

Participating member state (EPC – UP)

AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI

DOCDB simple family (publication)

DE 202017104411 U1 20170808; CN 110958903 A 20200403; CN 110958903 B 20210824; EP 3658242 A1 20200603; EP 3658242 B1 20230830; EP 3658242 C0 20230830; ES 2958591 T3 20240212; HU E063730 T2 20240128; PL 3658242 T3 20240408; WO 2019020507 A1 20190131

DOCDB simple family (application)

DE 202017104411 U 20170724; CN 201880049237 A 20180720; EP 18755139 A 20180720; EP 2018069728 W 20180720; ES 18755139 T 20180720; HU E18755139 A 20180720; PL 18755139 T 20180720