

Title (en)

METHOD AND DEVICE FOR QUENCHING OIL AND PETROLEUM PRODUCTS IN TANKS

Title (de)

VERFAHREN UND VORRICHTUNG ZUM LÖSCHEN VON ÖL- UND ERDÖLPRODUKTEN IN TANKS

Title (fr)

PROCÉDÉ ET DISPOSITIF D'EXTINCTION DE PÉTROLE ET DE PRODUITS PÉTROLIERS DANS DES RÉSERVOIRS

Publication

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Application

EP 10846730 A 20101214

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Abstract (en)

[origin: WO2011105926A1] The invention pertains to the field of fire-fighting techniques and relates to a method for quenching oil and petroleum products in a tank, which comprises feeding a fire-extinguishing mixture through a floating sprinkler that sprinkles the same above the surface of the burning liquid. The fire-extinguishing method comprises three steps: a first step that comprises installing a floating sprinkler connected by a duct and through an opening-closing device with an injector under the layer of burning liquid; a second step, after delivery of a signal from a fire indicator, of opening the opening-closing device on the injector and feeding the fire-extinguishing mixture through the duct and the floating sprinkler under the layer and/or at the surface of the burning liquid in the form of compact jets from the center to the periphery and parallel to the horizontal; a third step of surfacing the floating sprinkler above the surface of the burning liquid. In the device for quenching oil and petroleum products, the outlet duct outside of the tank is connected to the injector via a hinge and the opening-closing device. On the other side, the duct is connected to the sprinkler via a hinge and a float. The float has an adjustable buoyancy. The sprinkler includes at least one row of nozzle openings. The technical result of the invention is an increase in the fire-extinguishing efficiency in tanks as the extinction time and the metal mass of the structure of the device are reduced.

IPC 8 full level

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Citation (search report)

- [Y] DE 908940 C 19540412 - TOTAL FOERSTNER & CO
- [YD] RU 2258549 C1 20050820
- [A] US 1813101 A 19310707 - MAHON TAYLOR JACK FRANCIS
- [A] FR 700499 A 19310302
- See references of WO 2011105926A1

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