

Title (en)

Tank for the storage of hydrocarbons and liquid of any nature

Title (de)

Tank zur Lagerung von Kohlenwasserstoffen und einer Flüssigkeit jeglicher Art

Title (fr)

Réservoir pour le stockage d'hydrocarbures et liquide de tout type

Publication

EP 2428464 A1 20120314 (EN)

Application

EP 11007219 A 20110906

Priority

IT GE20100097 A 20100908

Abstract (en)

Underground tank (tank-tunnel) or in the open (sunken or above ground) for the storage of hydrocarbons and liquids of any nature comprising a metallic structure (2) inside a static facing (3) suitable to separate the metallic structure from the surrounding ground (tank-tunnel) and to circumscribe the open-air tank, where said metallic structure comprises a plurality of metallic elements (6) in plating assembled with specific welded joints forming, around their perimeter, the mini longitudinal and transversal tubular ducts of the system suitable for the auto containment even of a possible leak of liquid (fuel) and where the mini, longitudinal, tubular ducts merge into the verticals or transversals that terminate on the bottom of the tank connected to a mini pipe, which comes out below the tank itself, on the terminal of which an electro-valve with hermetic seal (15) is inserted, connected to a stretch of transparent pipe (14), by which one activates the preliminary visual monitoring of any possible presence of liquid (fuel) at the level of drops, in turn the transparent stretch is connected to another stretch of mini pipe that flows into a suitable sealed recipient inside of which a sensor (12) is placed capable of signalling, to the monitoring display, the presence of liquid even in the state of vapours, where said sensor, in case of the presence of liquid (drops) in the mini piping, autonomously commands the closing of the electro-valve.

IPC 8 full level

B65D 88/76 (2006.01); **B65D 90/501** (2019.01); **B65D 90/08** (2006.01)

CPC (source: EP US)

B65D 88/76 (2013.01 - EP); **B65D 90/022** (2013.01 - EP); **B65D 90/023** (2013.01 - EP); **B65D 90/08** (2013.01 - EP); **B65D 90/501** (2013.01 - EP US); **B65D 90/24** (2013.01 - EP)

Citation (applicant)

- IT GE20070128 A1 20090629 - EFFE COSTRUZIONI S R L
- IT GE20090019 A1 20090702 - EFFE INGEGNERIA E COSTRUZIONI S R L

Citation (search report)

- [X] EP 0325683 A2 19890802 - FERRARI NINO COSTR [IT], et al
- [A] EP 2075204 A1 20090701 - EFFE INGEGNERIA E COSTRUZIONI [IT]
- [A] FR 2213355 A1 19740802 - FERRARI ING NINO [IT]
- [A] JP S55158529 A 19801210 - ISHIKAWAJIMA HARIMA HEAVY IND
- [A] JP S58178238 A 19831019 - HITACHI LTD
- [A] JP S5586792 U 19800614
- [A] KR 20050015595 A 20050221 - TSMTECH CO LTD

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CN115638362A

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

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DOCDB simple family (application)

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