

Title (en)

Device for transport, handling and protection of bottles made of steel or similar

Title (de)

Vorrichtung zur Förderung, Handhabung und Schützung von Zylinder aus Stahl oder dergleichen

Title (fr)

Structure pour le transport, la manutention et la protection de bouteilles en acier ou analogues

Publication

EP 1167864 A1 20020102 (FR)

Application

EP 01401099 A 20010427

Priority

FR 0008308 A 20000628

Abstract (en)

A tubular structure has a cradle for holding a cylindrical bottle and has parallel tubes extending along and closely fitting to its cylindrical surface. The tubes curve back under the bottle and join together under the center of the bottle. The tubes also join together at their top to form carrying handles. Preferred Features: The cradle may have four tubes and two handles. Beneath the bottle the tubes come together to form an X-shape including a hinge attached to the bottle so a pair of tubes can pivot relative to the other pair. The handles are formed by joining the tubes in each pair.

Abstract (fr)

L'invention se rapporte à une structure tubulaire formant berceau pour recevoir une bouteille de forme générale cylindrique. Selon l'invention, ladite structure S comporte des tronçons (1,2,3,4) de tube parallèles à l'axe y'y de la bouteille, épousant étroitement sa surface selon des génératrices, lesdits tronçons se recourbant à leur base et se rejoignant sous le centre de la bouteille et se recourbant également à leur partie haute, au-dessus du sommet de la bouteille en formant des anses ou poignées (7,8) permettant de soulever la bouteille. L'invention s'applique notamment aux bouteilles pour gaz liquéfié. <IMAGE>

IPC 1-7

F17C 13/08

IPC 8 full level

F17C 13/08 (2006.01)

CPC (source: EP)

F17C 13/084 (2013.01); **F17C 2270/0745** (2013.01)

Citation (search report)

- [A] EP 0895019 A2 19990203 - PEREZ ARNEDO ELVIRA [ES]
- [A] US 2964054 A 19601213 - WEATHERHEAD JR ALBERT J
- [A] US 5119844 A 19920609 - CANNON REUBEN C [US], et al
- [A] FR 1143922 A 19571007 - DESSINS ETUDES
- [A] GB 1099488 A 19680117 - DIFFUSION D EQUIPEMENT ET DE M

Cited by

ITBS20090024A1; FR2855244A1; CN106595021A; WO2008059241A3

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1167864 A1 20020102; **EP 1167864 B1 20050629**; AR 028430 A1 20030507; AT E298862 T1 20050715; BR 0101632 A 20020213; CZ 20012391 A3 20020213; DE 60111687 D1 20050804; FR 2811062 A1 20020104; FR 2811062 B1 20020920; PL 197992 B1 20080530; PL 348319 A1 20020102; PT 1167864 E 20050930

DOCDB simple family (application)

EP 01401099 A 20010427; AR P010102187 A 20010509; AT 01401099 T 20010427; BR 0101632 A 20010427; CZ 20012391 A 20010627; DE 60111687 T 20010427; FR 0008308 A 20000628; PL 34831901 A 20010627; PT 01401099 T 20010427