

Title (en)

Supporting arrangement for horizontally disposed pressure vessels.

Title (de)

Abstützvorrichtung für waagerecht liegende Druckbehälter.

Title (fr)

Dispositif de support pour réservoirs sous pression disposés horizontalement.

Publication

EP 0141970 A1 19850522 (DE)

Application

EP 84111066 A 19840917

Priority

DE 3335546 A 19830928

Abstract (en)

1. A supporting arrangement for horizontally disposed cylindrical pressure vessels (1), particularly but not exclusively, for corresponding pressure vessels in steam power installations, said arrangement consisting of a boiler support disposed between the vessel and the base plate with a boiler supporting shell (6) acting as a shell-like supporting surface with side edges (8) running at right angles to the longitudinal extension of the vessel, wherein for axial fixing the vessel is connected to the boiler support at a plurality of locations with the help of retaining elements which are welded to the vessel and act on the side edges of the boiler supporting shell, characterised in that the retaining elements are in the form of multi-layer built-up welds (9) with a contact face running parallel to the side edges (8) of the boiler supporting shell (6), a shim (10) being inserted between each built-up weld (9) and the associated side edge (8) of the boiler supporting shell and being secured by means of a holder (11) fastened to the boiler support ; and in that in order to secure the vessel (1) against rotation, eyes (12, 13) are welded coaxially on the wall of the vessel and the boiler supporting shell through which eyes a shaft (14) is inserted which cannot be rotated.

Abstract (de)

Zur konstruktiven Verbesserung der axialen Fixierung eines waagerecht liegenden Druckbehälters (1) in einem Kesselstuhl (3) sind auf die Behälterwand mehrlagige Auftragsschweißungen (9) aufgebracht. Zwischen eine Anlagefläche jeder Auftragsschweißung und die Seitenkante (8) der Kesselstuhlschale (6) ist ein Passstück (10) eingefügt, das mittels einer am Kesselstuhl befestigten Halterung (11) fixiert ist. Zur Sicherung des Behälters gegen Verdrehen sind weiterhin Behälter und Kesselstuhlschale mit Augen (12, 13) versehen, in die eine nicht verdrehbare Achse bzw. Welle (14) eingesteckt ist.

IPC 1-7

F22B 37/24; **B65D 90/12**

IPC 8 full level

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CPC (source: EP)

B65D 90/12 (2013.01); **F22B 37/207** (2013.01); **F22B 37/246** (2013.01)

Citation (search report)

- [AD] DE 2840528 A1 19800327 - KRAFTWERK UNION AG
- [A] FR 2168674 A5 19730831 - WORMS ENGINEERING [FR]
- [A] DE 3116570 A1 19821223 - KRAFTANLAGEN AG [DE]

Cited by

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EP 0141970 A1 19850522; **EP 0141970 B1 19870715**; AT E28355 T1 19870815; BR 8404871 A 19850813; DE 3335546 A1 19850404; DE 3464795 D1 19870820; ES 290730 U 19860316; ES 290730 Y 19861016; JP H036401 B2 19910130; JP S6096806 A 19850530

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