

Title (en)

Apparatus for a quick connecting or a quick dismantling of two big and heavy parts for a metallurgical plant, particularly for a continuous casting apparatus for steel

Title (de)

Vorrichtung für ein schnelles Verbinden oder ein schnelles Lösen von zwei grossen, schweren Bauteilen für den Hüttenwerksbetrieb, insbesondere für ein Stahl-Stranggiessmaschine

Title (fr)

Appareil pour un attachement rapide ou un détachement rapide de deux grosses pièces lourdes pour une usine métallurgique, en particulier pour une machine de coulée continue pour l'acier

Publication

**EP 1754556 A3 20080507 (DE)**

Application

**EP 06015322 A 20060724**

Priority

DE 102005039473 A 20050820

Abstract (en)

[origin: EP1754556A2] The apparatus has a hydraulically steered clamping unit (1) having a hydraulic plunger (10) and which a clamping piston (14) forms with a centric diaphragm spring column (13). The housing (9) of the clamping unit is connected to a construction unit (2), and which clamping pistons penetrates two construction unit. The clamping piston has a clamping head (17) which is provided in opposite direction to the first construction unit against the second construction unit (4).

IPC 8 full level

**B22D 11/128** (2006.01)

CPC (source: EP)

**B22D 11/128** (2013.01)

Citation (search report)

- [A] US 5915460 A 19990629 - COURSON HARRY J [US], et al
- [A] JP H08168858 A 19960702 - SUMITOMO HEAVY INDUSTRIES, et al
- [A] DE 4306853 A1 19940901 - MANNESMANN AG [DE]

Cited by

CN114673636A; RU2741608C1; CN105170921A; CN110997180A; EP3666417A4; DE102009052329B4; US11565309B2; US11141781B2; WO2019091664A1; WO2010149321A1

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