

Title (en)

Horizontal support for a tilting converter and method for retrofitting a tipping converter

Title (de)

Horizontalabstützung für einen kippbaren Konverter und Verfahren zum Umbau eines kippbaren Konverters

Title (fr)

Appui horizontal pour un convertisseur à bascule et procédé de transformation d'un convertisseur à bascule

Publication

EP 2674503 A1 20131218 (DE)

Application

EP 12172163 A 20120615

Priority

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Abstract (en)

Tiltable converter (1) comprises a converter vessel (2) having a converter axis (3), a supporting ring (4) exhibiting two diametrically opposite supporting pins respectively arranged on a fixed bearing side or on a loose bearing side of the supporting ring, and a suspension system for supporting the converter vessel on the supporting ring, comprising horizontal connecting elements (8) which are oriented parallel to a supporting ring plane formed by the supporting ring, and respectively with their opposite ends, act on the converter vessel or on the supporting ring in an articulated manner. Tiltable converter (1) comprises a converter vessel (2) having a converter axis (3), a supporting ring (4) which surrounds the converter vessel at a distance, and exhibits two diametrically opposite supporting pins which are respectively arranged on a fixed bearing side or on a loose bearing side of the supporting ring, and a suspension system for supporting the converter vessel on the supporting ring, comprising horizontal connecting elements (8) which are oriented parallel to a supporting ring plane formed by the supporting ring, and act respectively with their opposite ends, on the converter vessel or on the supporting ring in an articulated manner. At least two horizontal connecting elements are arranged in the region of at least one of the two supporting pins. All horizontal connecting elements which are arranged in the region of the supporting pins, are present in the same plane which in upright position of the converter vessel, when the converter axis is oriented parallel to perpendicular, is present below or above the support ring plane. An independent claim is also included for converting the tiltable converter.

Abstract (de)

Die Erfindung betrifft einen kippbaren Konverter (1), umfassend ein Konvertergefäß (2) mit einer Konverterachse (3), einen das Konvertergefäß (2) mit Abstand umfassenden Tragring (4) mit zwei diametral gegenüberliegenden Tragzapfen (6,7), welche jeweils auf einer Festlagerseite beziehungsweise auf einer Loslagerseite des Tragrings (4) angeordnet sind und ein Aufhängungssystem zur Abstützung des Konvertergefäßes (2) am Tragring (4). Das Aufhängungssystem umfasst zumindest zwei parallel zu einer vom Tragring (4) gebildeten Tragringebene ausgerichtete horizontale Verbindungselemente (8), die jeweils mit ihren gegenüberliegenden Enden am Konvertergefäß (2) beziehungsweise am Tragring (4) angreifen. Ein weiterer Gegenstand der Erfindung ist ein Verfahren zum Umbau eines kippbaren Konverters.

IPC 8 full level

C21C 5/46 (2006.01); **C21C 5/50** (2006.01); **F27B 3/06** (2006.01)

CPC (source: EP KR)

C21C 5/4633 (2013.01 - EP KR); **C21C 5/50** (2013.01 - EP KR); **F27B 3/065** (2013.01 - EP KR); **F27B 14/02** (2013.01 - EP KR)

Citation (search report)

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BA ME

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