

Title (en)
Steel-making converters.

Title (de)
Stahlwerkkonverter.

Title (fr)
Perfectionnement aux convertisseurs d'aciérie.

Publication
EP 0040112 A1 19811118 (FR)

Application
EP 81400570 A 19810410

Priority
FR 8010556 A 19800512

Abstract (en)
1. Converter consisting of a vessel (10) supported by a ring (12) which surrounds it and is fitted with two diametrically opposed trunnions (14) allowing the vessel to tilt on a horizontal axis, the vessel being fitted with brackets (16) resting on the upper side of the ring when the vessel is vertical and its spout at the top, characterized by the fact that the said brackets (16) are attached to the ring by mushroom-shaped parts (26) whose cap (30) is situated above the base plate (18) of the brackets (16) and whose foot (29), which passes through the said base plate, rests on the upper side of the ring (12) and is made an integral part of the latter by means of attachment rods (28) which pass through the ring (12) on a parallel with its axis and exert predetermined clamping stresses on the said parts (26) allowing them to be prestressed and joined together with the ring, without clearance, and by the fact that the passages (34) provided in the base plates of the brackets for the foot of the said parts have greater dimensions than those of the said feet to allow the differential expansion of the vessel (10) and ring (12) and by the fact that during installation a clearance (j) is left between the cap (29) of the said parts and the base plate (18) of the brackets so that the latter can slide freely over the ring under any circumstances.

Abstract (fr)
L'invention concerne les convertisseurs d'aciérie comportant une cornue fixée par l'intermédiaire de chaises sur une ceinture qui l'entoure. Pour permettre la libre dilatation de la cornue, réduire les contraintes dans les chaises et éventuellement diminuer le nombre de chaises, celles-ci sont liées à la ceinture par des pièces (26) en forme de champignon dont le pied (29) traverse la semelle (18) des chaises (16) et dont le chapeau se trouve au-dessus de ladite semelle, des jeux étant ménagés au montage entre le pied et le chapeau des pièces et la semelle des chaises ; ces pièces sont fixées sur la ceinture par des tiges filetées (28).

IPC 1-7
C21C 5/46

IPC 8 full level
C21C 5/46 (2006.01); **C21C 5/50** (2006.01)

CPC (source: EP)
C21C 5/4633 (2013.01)

Citation (search report)

- FR 1550837 A 19681220
- DE 1293179 B 19690424 - DEMAG AG
- DE 1197106 B 19650722 - BETEILIGUNGS & PATENTVERW GMBH
- DE 1291345 B 19690327 - DEMAG AG

Cited by
US6290901B1; FR2591233A1; US4700929A

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AT DE GB IT

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EP 0040112 A1 19811118; EP 0040112 B1 19830601; EP 0040112 B2 19870909; AT E3650 T1 19830615; DE 3160383 D1 19830707; FR 2482135 A1 19811113; FR 2482135 B1 19841207; JP S575812 A 19820112; JP S6411683 B2 19890227

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EP 81400570 A 19810410; AT 81400570 T 19810410; DE 3160383 T 19810410; FR 8010556 A 19800512; JP 6773581 A 19810507