

Title (en)

Method and apparatus for casting with a cement-free joint of a metallurgical vessel and a casting gate

Title (de)

Vorrichtung und Verfahren zum Giessen mit einer zementfreien Verbindung des Schiebeverschlusses mit dem metallurgischen Gefäß

Title (fr)

Dispositif de coulée comportant une liaison sans ciment d'un conteneur métallurgique à un obturateur à tiroir et procédé de mise en oeuvre de ce dispositif

Publication

**EP 0621098 B1 20020717 (FR)**

Application

**EP 93401008 A 19930419**

Priority

EP 93401008 A 19930419

Abstract (en)

[origin: EP0621098A1] The casting apparatus comprises a metallurgical vessel equipped with a casting port (6), a casting gate comprising: at least one stationary refractory plate (14) including a port placed opposite the casting port; at least one movable refractory plate (16) including at least one port; displacement means (28) for displacing the movable plate (16) with respect to the stationary plate (14) so as to control the covering-over of the port of the stationary plate (14) and of the movable plate (16); means (26) for pressing the movable plate (16) against the stationary plate (14). The casting port (6) of the metallurgical vessel includes a surface (8) of joining to the stationary plate (14) of the casting gate. The stationary plate (14) includes a joining surface (32) adapted to the surface (8). Pressure means (30) make it possible to press the joining surface (32) of the stationary plate (14) against the joining surface (8) of the casting port so that a leaktight seal is guaranteed between these two surfaces in the absence of mortar, a cemented join or fibres, adhesive or any other means added to guarantee the leaktight seal. <IMAGE>

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IPC 8 full level

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- DE 2027881 B2 19791213
- DE 3512798 C1 19860206 - STOPINC AG
- JP S49105730 A 19741007

Cited by

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**EP 0621098 A1 19941026**; **EP 0621098 B1 20020717**; **EP 0621098 B2 20051123**; AT E220588 T1 20020815; AU 6569394 A 19941108; AU 666624 B2 19960215; BR 9404968 A 19990615; CA 2137372 A1 19941027; CA 2137372 C 20070626; CN 1057718 C 20001025; CN 1107274 A 19950823; DE 69332116 D1 20020822; DE 69332116 T2 20030306; DE 69332116 T3 20060928; ES 2176196 T3 20021201; ES 2176196 T5 20060501; JP 3259962 B2 20020225; JP H07508223 A 19950914; MX PA94002807 A 20050128; RU 2145534 C1 20000220; RU 94046258 A 19961027; US 5400930 A 19950328; US RE36364 E 19991102; WO 9423867 A1 19941027

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