

Title (en)

Box nozzle for ladles and the like, with lateral torsion bars

Title (de)

Mit lateralen Torsionsstäbe ausgestatteter Schieberverschluss für metallurgische Gefässe

Title (fr)

Fermeture coulissante pour récipients de coulée pourvue de barres de torsion latérales

Publication

**EP 0590174 B1 19981202 (EN)**

Application

**EP 92116553 A 19920928**

Priority

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Abstract (en)

[origin: EP0590174A1] The invention concerns a box nozzle for ladles and the like, of the type including: (a) a fixed upper metal plate (10) connected to the bottom of the ladle; (b) a fixed lower metal plate (20) referred to as "the cover", supported by the latter by means of bolts (13), tiltable and detachable from the latter for maintenance of the box nozzle; (c) a third metal plate (60) which runs between the previous two, through appropriate controls, called "the slide" for short; (d) a first refractory plate (30) with an orifice, held in a fixed position by the fixed upper metal plate (10); (e) a second refractory plate (70), with an orifice, held by said slide (60) and hence sliding with it; (f) a tilting frame (50) inserted between said slide (60) and said cover (20) as well as: (g) flexible means of support positioned between said cover (20) and said tilting frame (50), aligned parallel to the long sides of the cover (20). According to the invention, said flexible support means consist of torsion bars (40-44). The invention also provides for the means for an inert gas feed around the outgoing liquid metal stream.

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