

Title (en)

ROTARY VALVE FOR A METALLURGICAL VESSEL, AND ROTOR AND STATOR THEREFOR

Publication

EP 0302215 B1 19921230 (DE)

Application

EP 88110276 A 19880628

Priority

- DE 3725637 A 19870803
- DE 3805070 A 19880218
- DE 3819784 A 19880610

Abstract (en)

[origin: JPS6457971A] PURPOSE: To enable the simple handling and the easy repairing by arranging a stator and a rotor in the range of molten metal in the wall lining or the bottom lining of a refractory vessel in the inner part of the vessel. CONSTITUTION: A rotary closing device 1 is arranged in a square range between the bottom lining 2 and the wall lining 3 of the refractory vessel as a constituting part of the metallurgical vessel in the range of the molten metal. The bottom lining 2 of the vessel protects the vessel bottom part 33 of the metal and the wall lining 2 of the vessel protects the vessel wall part 34. A part of the one side of the stator 6 has a vertical discharge passage 5 and the extending part below the stator is penetrated to the vessel bottom part 2 for metal integrally as a nozzle tube. A portion 6' arranged at the side part of the stator 6 is constituted as hollow conical shape and contains the end part at driving side of the rotor 4. The rotor 4 has a linear flowing passage 7 and the flowing passage is formed in a straight line with the discharge passage 5 of the stator 6 in an opening position. The stator 6 can be inserted, into the bottom lining 2 of the vessel from the inner part 8 of the vessel together with the nozzle tube 10 and the side part portion 6' into the wall lining 3 of the vessel through the vessel wall 34.

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IPC 8 full level

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Cited by

EP0436813A3; ES2085200A2; US4966314A; US5121860A; US5127557A; WO0056484A1

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