

Title (en)

CRACK RESISTANT VALVE PLATE ASSEMBLY FOR A MOLTEN METAL SLIDE GATE VALVE

Title (de)

RISSBESTÄNDIGE SCHIEBERPLATTEANORDNUNG FÜR EIN SCHIEBERVERSCHLUSS ZUM GIESSEN VON METALLSCHMELZE

Title (fr)

ENSEMBLE PLAQUE PORTE-SOUPAPE RESISTANT A LA FISSURATION DESTINE A UNE VANNE A GLISSIERE POUR METAL FONDU

Publication

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Application

EP 95928161 A 19950802

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Abstract (en)

[origin: WO9704904A1] A crack resistant valve plate assembly is provided for use in a slide gate valve. The valve plate assembly includes a refractory valve plate having an orifice (19) positioned along its longitudinal center line (70), and truncated corners (54 a,b,c,d) for focusing a clamping force toward the center line in the vicinity of the orifice to prevent the formation and spreading of cracks. The angular orientation of each of the truncated corners varies with respect to the position of the orifice along the longitudinal center line. Specifically, each of the truncated corners are orthogonal to a line (78 a,b,c,d) extending from a point tangent with the orifice, across the center line, and through an intersection of lines (72 a,b,c,d) drawn parallel to the converging lengthwise and widthwise plate edges that is spaced from the edges a distance equal to one half of the maximum diameter of orifice that the plate can effectively operate with.

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