

Title (en)

TAPHOLE DRILL FOR METALLURGICAL CONTAINERS, IN PARTICULAR FURNACES HAVING MOLTEN CONTENT

Title (de)

STICHLOCHBOHRMASCHINE FÜR METALLURGISCHE BEHÄLTER, INSBESONDERE ÖFEN MIT SCHMELZFLÜSSIGEM INHALT

Title (fr)

MACHINE DE PERÇAGE DE TROUS DE COULÉE POUR CONTENANTS MÉTALLIQUES, EN PARTICULIER FOURS RENFERMANT UN CONTENU EN FUSION

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Application

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Priority

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Abstract (en)

[origin: WO2010094571A1] The invention relates to a taphole drill comprising a carriage (1), which can be moved from the rest position to a pre-positioned working position and vice versa by means of a lifting device, and a drill and impact hammer (6) that can be moved by a motor on the carriage for driving a drill rod (7) guided at the furnace-side end (2) of the carriage (1) by means of a centering device (11) into the taphole (3) of a furnace (5) filled with a sealing compound (4) and pulling said drill rod out of the taphole (3) of a furnace filled with a sealing compound (4). The taphole drill is equipped with a drive arranged on the suspension of the taphole drill on a support frame (16) of the lifting device for a linear feed motion of the carriage (1) from a pre-positioned working position to the final working position (1a) of a certain distance (A) of the centering device (11) from the taphole (3) and for a retraction motion of the carriage (1) at or above a certain penetration depth of the drill rod (7) into the sealing compound (4) of the taphole (3) from the working position (1a) to a retracted position with a simultaneous feed motion of the drill rod (7) into the taphole (3) to protect the furnace-side carriage end (2) and the centering device (11) against the melt exiting the taphole during opening of the taphole (3) and for the feed motion of the carriage (1) from the retracted position to the working position (1a) for a new tapping process.

IPC 8 full level

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