Title (en)

PROCESS AND DEVICE FOR LOOSENING AND REMOVING SOLID COATINGS ON THE SURFACES OF ENCLOSED SPACES, E.G. THE FLUE GAS SIDE OF A FURNACE OR BOILER

Publication

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Application

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Priority

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Abstract (en)

[origin: WO8204065A1] Process and device for loosening and removing soot and solid coatings on surfaces in enclosed spaces such as the flue gas side of a furnace or boiler. In the case of a furnace, covers and flue gas ducts (4) to the flue gas side are sealed to form a closed chamber, which is supplied with unpressurized steam. Characterizing the process is that the steam, before being introduced into the enclosed space, is saturated with a cleaning composition (14), which includes synthetic tensides, alkali, complexing agents, a corrosion inhibitor and environmentally safe solvents and solvent vehicles. The cleaning of the metal surface is done in one or more steps and is followed by a passivating step for the metal surface, whereby the surface is coated with a passivating agent which counteracts continued deposits on the metal surface. The device is characterized in that it comprises a vessel (15) for liquid cleaning composition (14), said vessel being connected via a line (13) to a reduction valve (11), through which water flows to a steam generating chamber (8), which includes means (9) for vapourizing the water in conjunction with said composition. The combined steam of water and composition is conducted via a steam line (7) to the enclosed space to be cleaned, e.g. the flue gas side of a furnace (1).

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