

Title (en)

HIGH TEMPERATURE PREMELTING APPARATUS

Title (de)

HOCHTEMPERATUR-VORSCHMELZVORRICHTUNG

Title (fr)

APPAREIL DE PREFUSION A HAUTE TEMPERATURE

Publication

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Application

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Abstract (en)

[origin: WO0120046A1] This invention is a premelting vessel (1) and a method for premelting charge (12) before the charge (12) is introduced into a melting vessel (50) or furnace (50) in the steelmaking and metallurgical industry. The invention uses chemical energy from fuel sources layered within the charge (12) and from available process off-gases within a plant to premelt the charge (12) before it is transferred to the melting vessel (50), thereby reducing the melting phase time and increasing the production rate. This invention also eliminates the use of a post-combustion chamber.

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