

Title (en)
ELECTRIC ARC SCRAP FURNACE

Title (de)
SCHROTTEINSCHMELZ-ELEKTRO-LICHTBOGENOFEN

Title (fr)
FOUR A ARC ELECTRIQUE POUR LA FUSION DE FERRAILLES

Publication
EP 0719402 A1 19960703 (DE)

Application
EP 95912948 A 19950330

Priority
• AT 9500064 W 19950330
• AT 127094 A 19940628

Abstract (en)
[origin: WO9600877A1] An electric arc furnace for melting scrap iron is to be of the simplest possible design while preventing thermal loads on the side walls caused by the electrodes and damage to the electrodes during charging. The electric arc furnace is distinguished by the combination of the following elements: a base (2) to take the melt (10); an upper part (13) projecting from the base (2) with a side wall (15); a lid (16) covering the upper part (13); a charging shaft (17) arranged approximately centrally to the upper part (13) with a considerably smaller diameter (21) than that (22) of the upper part (13). The inside (18) of the charging shaft (18) is connected to the inside (20) of the furnace by an aperture (19) in the lid (16) and there are electrodes (31) in approximately symmetrical radial array directed obliquely into the inside of the furnace projecting approximately towards the centre (14) of the electric arc furnace.

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F27B 3/18

IPC 8 full level
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CPC (source: EP KR US)
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Citation (search report)
See references of WO 9600877A1

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