

Title (en)

Slagremoving door of an arc furnace.

Title (de)

Schlackenabzugtür für einen Lichtbogenofen.

Title (fr)

Porte de décrassage d'un four électrique à arc.

Publication

EP 0587518 A1 19940316 (FR)

Application

EP 93470019 A 19930819

Priority

FR 9210867 A 19920911

Abstract (en)

The present invention relates to a slag removing door (10) of an electric arc furnace, of the type comprising a panel (11) which in particular is cooled and mounted slidingly vertically in front of a slag removing opening (2) of said furnace. The slag removing door (10) comprises means (20) for forming a curtain of air which is directed towards the threshold (4) of the door and extends essentially over the entire width of this door to ensure the impermeability of the bottom of said door during its closure and its partial opening. <IMAGE>

Abstract (fr)

La présente invention a pour objet une porte de décrassage (10) d'un four électrique à arc, du type comprenant un panneau (11) notamment refroidi et monté coulissant verticalement devant une ouverture de décrassage (2) dudit four. La porte de décrassage (10) comprend des moyens (20) de formation d'un rideau d'air dirigé vers le seuil (4) de la porte et s'étendant sensiblement sur toute la largeur de cette porte pour assurer l'étanchéité du bas de ladite porte pendant sa fermeture et son ouverture partielle. <IMAGE>

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Citation (search report)

- [A] US 3575398 A 19710420 - LINCOLN JOSEPH A, et al
- [A] US 4449922 A 19840522 - FINKE HARRY P [US]
- [A] DE 3842203 A1 19900621 - MANNESMANN AG [DE]
- [A] FR 1457907 A 19661104
- [A] DE 3208490 A1 19821125 - NIPPON STEEL CORP [JP]
- [A] LU 53321 A1 19670530
- [A] US 2534747 A 19501219 - WILSON HERMAN W, et al

Cited by

EP2647937A4; EP2044377A4; EP1158258A3; EP2482018A4; CN109307075A; US8124004B2

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