Title (en)
Waste gas circulation method and system for sintering apparatus.

Title (de)
Verfahren und Vorrichtung zum Umwälzen von Abgasen in einer Sinteranlage.

Title (fr)
Méthode et agencement pour la circulation des gaz usés dans une installation de frittage.

Publication
EP 0141890 A1 19850522 (EN)

Application
EP 83402210 A 19831116

Priority
EP 83402210 A 19831116

Abstract (en)
Herein disclosed are a waste gas circulation method and system for conducting the same. These method and system are appropriate for effectively recovering waste heat from an on-strand type sintering apparatus (20) which has its sintering and cooling zones extending continuously along a horizontal strand. The hottest waste gases coming from the final stage of the sintering zone and the front stage of the cooling zone (163) are subjected to heat recovery, and sulfur oxides in the hottest gases are prevented from condensing on the water pipe or pipes of a waste-heat boiler (25) by preheating the water with the still hot waste gases coming from the downstream half of the cooling zone (164). Thus, it is possible to conduct the ore sintering operation of regenerative type while assuring that the boiler components in those heat exchanging operations will not be corroded by the waste gases.

IPC 1-7
F27B 21/06; F27D 17/00; C22B 1/20

IPC 8 full level
C22B 1/20 (2006.01); F27B 21/06 (2006.01); F27D 17/00 (2006.01)

CPC (source: EP)
C22B 1/20 (2013.01); F27B 21/06 (2013.01); F27D 17/004 (2013.01)

Citation (search report)
- [A] FR 2297922 A1 19760813 - SIDERURGIE FSE INST RECH [FR]
- [A] US 4371150 A 19830201 - TSUKUDA TOSHIO [JP]
- [A] AT 352408 B 19790925 - VOEST AG [AT]
- [A] FR 2444720 A1 19800718 - DELATTRE LEVIVIER

Cited by
CN114485178A; EP0302120A4

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0141890 A1 19850522; EP 0141890 B1 19870506; DE 3371412 D1 19870611

DOCDB simple family (application)
EP 83402210 A 19831116; DE 3371412 T 19831116