

Title (en)

PROCESS FOR THE DIRECT REDUCTION OF IRON-CONTAINING MATERIALS IN A ROTARY FURNACE

Publication

**EP 0321018 B1 19920722 (DE)**

Application

**EP 88202755 A 19881201**

Priority

DE 3743007 A 19871218

Abstract (en)

[origin: EP0321018A1] Materials containing iron oxide are reduced to iron sponge by means of solid carbonaceous reducing agents, coarse-grained iron oxide-containing material being charged into the charging end of the rotary furnace and fine-grained iron oxide-containing material being blown into the reduction zone. To prevent plant upsets by fine-grained material, the lumpy iron oxide-containing material is, before it is charged to the rotary furnace, separated at a screening cut of 3 to 6 mm and a screening cut of 0.8 to 1.5 mm into a coarse fraction, a fine fraction and a very fine fraction, the coarse fraction is charged into the charging end of the rotary furnace, and the fine fraction is blown from the discharge end of the rotary furnace into the reduction zone and distributed on the charge.

IPC 1-7

**C21B 13/08**

IPC 8 full level

**C21B 13/08** (2006.01)

CPC (source: EP)

**C21B 13/08** (2013.01)

Designated contracting state (EPC)

DE ES GR IT

DOCDB simple family (publication)

**EP 0321018 A1 19890621; EP 0321018 B1 19920722;** AU 2695388 A 19890622; AU 610957 B2 19910530; BR 8805650 A 19890718; CN 1016618 B 19920513; CN 1033649 A 19890705; DE 3743007 A1 19890629; DE 3873051 D1 19920827; ES 2042722 T3 19931216; GR 3005903 T3 19930607; IN 169929 B 19920111; PT 89252 A 19891229; PT 89252 B 19930730; TR 23570 A 19900403; ZA 889414 B 19900829

DOCDB simple family (application)

**EP 88202755 A 19881201;** AU 2695388 A 19881216; BR 8805650 A 19881102; CN 88106723 A 19880916; DE 3743007 A 19871218; DE 3873051 T 19881201; ES 88202755 T 19881201; GR 920401646 T 19921008; IN 22CA1988 A 19880111; PT 8925288 A 19881216; TR 70688 A 19881005; ZA 889414 A 19881215