

Title (en)

A method of producing liquid crude iron and high-grade top gas.

Title (de)

Verfahren zur Herstellung von flüssigem Roheisen und hochwertigem Gichtgas.

Title (fr)

Procédé de fabrication de la fonte brute en fusion et du gaz de gueulard de haute qualité.

Publication

**EP 0271464 A2 19880615 (EN)**

Application

**EP 87850378 A 19871203**

Priority

SE 8605226 A 19861205

Abstract (en)

A blast furnace is fed by a charge of conventional composition and a blast is used that contains about 50% oxygen and 20% water vapour, balance nitrogen. Additional fuel in the form of coal dust and/or oil is supplied to the raceways. Normal temperatures are maintained in the hearth and top zones. As compared with conventional operation a very high specific crude iron production per m<sup>2</sup> of hearth area and 24 hours will result. The molecular ratio CO+H<sub>2</sub>/N<sub>2</sub> of the top gas will be higher than 2.8 which makes the top gas suitable for ammonia production.

IPC 1-7

**C21B 5/00**

IPC 8 full level

**C21B 5/00** (2006.01)

CPC (source: EP)

**C21B 5/00** (2013.01); **C21B 2100/24** (2017.04); **C21B 2100/282** (2017.04); **C21B 2100/44** (2017.04)

Cited by

EP2258879A4; EP2641980A1; US6190632B1

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

**EP 0271464 A2 19880615**; **EP 0271464 A3 19891025**; DK 421688 A 19880728; DK 421688 D0 19880728; SE 8605226 D0 19861205; SE 8605226 L 19880606; WO 8804329 A1 19880616

DOCDB simple family (application)

**EP 87850378 A 19871203**; DK 421688 A 19880728; SE 8605226 A 19861205; SE 8700571 W 19871202