Title (en)

CONVERSION FURNACE

Title (de)

KONVERSIONSOFEN

Title (fr)

FOUR DE CONVERSION

Publication

EP 3667220 A1 20200617 (EN)

Application

EP 18000953 A 20181210

Priority

EP 18000953 A 20181210

Abstract (en)

A conversion furnace (200) to heat ore for a desired chemical reaction. The furnace comprises a drum (210), a covering (220) surrounding the drum and a heating equipment (230) inside the drum. The space between the preferably slightly conical drum and covering is heated by the thermal energy of the drum and is then used as prewarming space (S₁) of the ore supplied to the furnace for warming and drying ore. Thereafter ore is transferred to the process space (S₂) inside the drum by structural parts, which utilize the rotation of the furnace. The heating elements belonging to the heating equipment (230) connect to its supporting part so that an integrated heating beam is constituted. The desired chemical reaction starts easier and takes place more fully than in the prior art. When using burners, ore can not mix with the flue gases, when the heating beam is surrounded by protection casing.

IPC 8 full level

F27B 7/02 (2006.01); **F27B 7/04** (2006.01); **F27B 7/16** (2006.01)

CPC (source: EP)

F27B 7/02 (2013.01); **F27B 7/162** (2013.01); F27B 2007/027 (2013.01); F27B 2007/045 (2013.01)

Citation (search report)

- [XI] GB 393293 A 19330529 - ANDRE PAUL EDOUARD BOURDET
- [XI] US 3396953 A 19680813 - SANDBROOK DEAN E
- [XI] US 401023 A 18890409
- [A] GB 2493069 A 20130123 - STAMP CLIVE ROGER [GB], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3667220 A1 20200617

DOCDB simple family (application)

EP 18000953 A 20181210