

Title (en)

METHOD OF PRODUCING A PROTECTIVE OR REACTIVE GAS FOR THE HEAT TREATMENT OF METALS.

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES SCHUTZ- ODER REAKTIONSGASES FÜR DIE WÄRMEBEHANDLUNG VON METALLEN.

Title (fr)

PROCEDE DE FABRICATION D'UN GAZ PROTECTEUR OU REACTIONNEL POUR LE TRAITEMENT THERMIQUE DE METAUX.

Publication

**EP 0636189 A1 19950201 (DE)**

Application

**EP 93908854 A 19930327**

Priority

- DE 4212307 A 19920413
- EP 9300749 W 19930327

Abstract (en)

[origin: WO9321350A1] Nitrogen produced by non-cryogenic methods, such as those using pressure-change adsorption or membrane installations, cannot owing to its high oxygen content of about 0.1 to 5 % V/V, be used for the heat treatment of metals, or can only be used to a limited degree. The invention proposes an endothermic catalytic conversion of the oxygen contained in the nitrogen by means of hydrocarbons to give a protective gas which is suitable for the heat treatment of metals.

IPC 1-7

**C21D 1/76**

IPC 8 full level

**C21D 1/76** (2006.01)

CPC (source: EP)

**C21D 1/763** (2013.01)

Citation (search report)

See references of WO 9321350A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 9321350 A1 19931028**; DE 4212307 A1 19931014; DE 4212307 C2 19940728; EP 0636189 A1 19950201

DOCDB simple family (application)

**EP 9300749 W 19930327**; DE 4212307 A 19920413; EP 93908854 A 19930327