

Title (en)  
PROCESS FOR PREPARING METALS OR ALLOYS AND APPARATUS THEREFOR

Publication  
**EP 0134780 A3 19860813 (DE)**

Application  
**EP 84890155 A 19840813**

Priority  
AT 295483 A 19830818

Abstract (en)  
[origin: US4561883A] In a method of producing metals or metal alloys by reducing their halides in a hydrogen plasma, a plasma jet reaction zone is built up from the vaporized metal halides contained in the plasma gas together with hydrogen, and the molten metal formed jets from the plasma jet reaction zone into a mould arranged therebelow. An arrangement for carrying out this method includes a reaction vessel whose upper part has a reaction space for the metal halide to be reduced and hydrogen-containing plasma gas, and a plasma lance arranged centrally in the reaction vessel, the metal formed getting into the lower part of the reaction vessel forming a metal sump therein.

IPC 1-7  
**C22B 4/00**; **C22B 5/12**; **C22B 34/12**

IPC 8 full level  
**C22B 4/00** (2006.01); **C22B 5/12** (2006.01); **C22B 34/00** (2006.01); **C22B 34/12** (2006.01); **C22F 1/18** (2006.01)

CPC (source: EP US)  
**C22B 4/005** (2013.01 - EP US); **C22B 5/12** (2013.01 - EP US); **C22B 34/1286** (2013.01 - EP US)

Citation (search report)  
• [X] FR 1441152 A 19660603 - RIO ALGOM MINES LTD  
• [X] US 2760857 A 19560828 - PHILIPP GROSS, et al  
• [A] FR 2341389 A1 19770916 - MONTEDISON SPA [IT]  
• [AD] US 3211548 A 19651012 - WALTER SCHELLER, et al

Cited by  
US11643704B2

Designated contracting state (EPC)  
BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0134780 A2 19850320**; **EP 0134780 A3 19860813**; AT 378539 B 19850826; AT A295483 A 19850115; AU 3165984 A 19850221; CA 1215677 A 19861223; JP S6070135 A 19850420; US 4561883 A 19851231

DOCDB simple family (application)  
**EP 84890155 A 19840813**; AT 295483 A 19830818; AU 3165984 A 19840807; CA 461024 A 19840815; JP 17233184 A 19840817; US 63864084 A 19840807