

Title (en)
DRYING OF ATOMIZED METAL POWDER

Title (de)
TROCKNUNG VON ATOMISIERTEN METALLPULVERN

Title (fr)
DESSICCATION DE POUDRE METALLIQUE ATOMISEE

Publication
EP 0904171 A1 19990331 (EN)

Application
EP 97921034 A 19970418

Priority
• SE 9700655 W 19970418
• SE 9601481 A 19960418

Abstract (en)
[origin: WO9738812A1] Metal powder, particularly iron/steel powder with low oxygen content, is atomized in an oxygen-free atmosphere by means of a hydrocarbon in liquid form such as paraffin, and the moist powder, still hot (60-80 DEG C), is transferred to a container (1) and supported therein on a screening member (2). A negative pressure is first applied below the screening member (2) so that liquid is drawn from the powder mass. An inert gas, substantially free from oxygen, is then circulated through the powder mass, whereupon vapour absorbed by the gas is condensed before the gas is recirculated to the container (1). A circulation circuit (70) for liquid atomizing medium joins the gas-circulation circuit (20) at a liquid jet pump (30).

IPC 1-7
B22F 9/08; F26B 5/12

IPC 8 full level
B22F 9/08 (2006.01); **F26B 5/04** (2006.01); **F26B 21/08** (2006.01); **F26B 21/14** (2006.01)

CPC (source: EP)
B22F 9/082 (2013.01); **F26B 5/04** (2013.01); **F26B 21/086** (2013.01); **F26B 21/14** (2013.01)

Citation (search report)
See references of WO 9738812A1

Designated contracting state (EPC)
DE GB SE

DOCDB simple family (publication)
WO 9738812 A1 19971023; AU 2718697 A 19971107; CA 2251752 A1 19971023; CA 2251752 C 20050802; DE 69705715 D1 20010823; DE 69705715 T2 20020613; EP 0904171 A1 19990331; EP 0904171 B1 20010718; SE 509031 C2 19981130; SE 9601481 D0 19960418; SE 9601481 L 19971019

DOCDB simple family (application)
SE 9700655 W 19970418; AU 2718697 A 19970418; CA 2251752 A 19970418; DE 69705715 T 19970418; EP 97921034 A 19970418; SE 9601481 A 19960418