

Title (en)
AUTOMATIC LANCE-EXCHANGING DEVICE

Publication
EP 0396717 B1 19930811 (DE)

Application
EP 89912763 A 19891115

Priority
LU 87387 A 19881116

Abstract (en)
[origin: WO9005790A1] Automatic coupling for coupling the lances used in steelmaking to a coupling head of a lance-holder, the requisite substances and liquid coolants being supplied to the lance through the coupling head. Coupling is effected by means of coupling hooks (4) provided on the coupling head (6), which are mounted on eccentrics (12) and move vertically when the eccentrics (12) are actuated.

IPC 1-7
C21C 5/46

IPC 8 full level
C21C 5/46 (2006.01)

CPC (source: EP US)
C21C 5/462 (2013.01 - EP US)

Designated contracting state (EPC)
AT BE DE FR GB IT

DOCDB simple family (publication)
WO 9005790 A1 19900531; AU 4622989 A 19900612; AU 614451 B2 19910829; BR 8907166 A 19910226; CA 2003179 A1 19900516; EP 0396717 A1 19901114; EP 0396717 B1 19930811; LU 87387 A1 19900612; US 5037069 A 19910806

DOCDB simple family (application)
LU 8900001 W 19891115; AU 4622989 A 19891115; BR 8907166 A 19891115; CA 2003179 A 19891116; EP 89912763 A 19891115; LU 87387 A 19881116; US 47481790 A 19900712