

Title (en)
CONTROL SYSTEM FOR SPRAYING ELECTRICALLY CONDUCTIVE LIQUID

Title (de)
SYSTEM ZUM STEUERN DES AUSSTOSSENS VON ELEKTRISCH LEITFÄHIGER FLÜSSIGKEIT

Title (fr)
SYSTEME DE COMMANDE DE PROJECTION DE LIQUIDE ELECTRIQUEMENT CONDUCTEUR

Publication
EP 1007363 A1 20000614 (FR)

Application
EP 98928414 A 19980602

Priority
• FR 9801107 W 19980602
• FR 9706799 A 19970603

Abstract (en)
[origin: FR2763870A1] The invention concerns a control system for spraying an electrically conductive liquid (3) emitted in the form of a pressure jet (4) by means of a nozzle (2), comprising means for fractionating the liquid jet into droplets, means for electrically charging said droplets and means for applying a deflecting electric field to the charged droplets. The system comprises: a first (8) and a second (6) monolithic element each having a continuous surface, arranged such that the continuous surfaces are facing each other and define between them a space (5) wherein the pressure jet (4) is emitted by said nozzle (2), said elements (6, 8) including means for constantly providing voltages to said continuous surfaces to obtain said current load of the droplets and said deflecting electric field; electronic means (31 to 36) controlling said voltages and controlling the intensity of the electric currents circulating on said continuous surfaces.

IPC 1-7
B41J 2/08

IPC 8 full level
B41J 2/06 (2006.01); **B41J 2/08** (2006.01)

CPC (source: EP US)
B41J 2/08 (2013.01 - EP US)

Citation (search report)
See references of WO 9855315A1

Designated contracting state (EPC)
DE ES GB IT NL SE

DOCDB simple family (publication)
FR 2763870 A1 19981204; FR 2763870 B1 19990820; AU 741223 B2 20011129; AU 8024898 A 19981221; CA 2292641 A1 19981210; CN 1095752 C 20021211; CN 1265624 A 20000906; DE 69808104 D1 20021024; DE 69808104 T2 20030515; EP 1007363 A1 20000614; EP 1007363 B1 20020918; ES 2184279 T3 20030401; JP 2002502332 A 20020122; US 6511164 B1 20030128; WO 9855315 A1 19981210

DOCDB simple family (application)
FR 9706799 A 19970603; AU 8024898 A 19980602; CA 2292641 A 19980602; CN 98807883 A 19980602; DE 69808104 T 19980602; EP 98928414 A 19980602; ES 98928414 T 19980602; FR 9801107 W 19980602; JP 50171899 A 19980602; US 42440399 A 19991122