

Title (en)
DEVICE FOR DAMPENING THE SURFACE OF AN OBJECT

Publication
EP 0114303 A3 19850109 (DE)

Application
EP 83112628 A 19831215

Priority
US 45430482 A 19821229

Abstract (en)
[origin: US4488684A] Apparatus for effecting controlled and accurate moistening of an object is described. A hollow rotor is provided with at least one shaped portion in its surface, that portion having a row of nozzles therein. The nozzles are drilled completely through the rotor sidewall so that they comprise a conduit between the rotor's center and the outer surface of the rotor. An apertured plate and shutter plate are movably mounted between an object to be coated and the rotor. Fluid is delivered to the center of the rotor from a supply thereof by means of an inlet tube. The rotor is coupled at its other end, which is sealed to prevent fluid escape, to a motor and driven thereby to eject fluid from the nozzles, aided by the vacuum effect of the shaped rotor portion. Only that fluid escaping through the exposed section of the slot in the apertured plate strikes and thereby coats the object to be moistened. Movement of the shutter plate can be used to incrementally adjust the width and number of layers of fluid applied to the moistened object.

IPC 1-7
B05C 5/00; **B41F 23/02**

IPC 8 full level
B41J 2/015 (2006.01); **B41J 2/01** (2006.01); **B41J 2/32** (2006.01); **B41J 2/425** (2006.01); **B41J 29/00** (2006.01); **B41M 5/20** (2006.01)

CPC (source: EP US)
B41M 5/20 (2013.01 - EP US)

Citation (search report)

- CH 522447 A 19720630 - KOHLER MAX [CH]
- US 4335967 A 19820622 - PAWLETKO JOSEPH P
- EP 0058855 A2 19820901 - IBM [US]

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0114303 A2 19840801; **EP 0114303 A3 19850109**; **EP 0114303 B1 19861029**; CA 1196778 A 19851119; DE 3367173 D1 19861204; JP H0226871 B2 19900613; JP S59123692 A 19840717; US 4488684 A 19841218

DOCDB simple family (application)
EP 83112628 A 19831215; CA 442154 A 19831129; DE 3367173 T 19831215; JP 15422783 A 19830825; US 45430482 A 19821229