

Title (en)  
Printing device

Title (de)  
Druckvorrichtung

Title (fr)  
Dispositif d'impression

Publication  
**EP 0737585 B1 19990113 (EN)**

Application  
**EP 96105732 A 19960411**

Priority  
JP 8899995 A 19950414

Abstract (en)  
[origin: EP0737585A1] A printing device according to the present invention assures stable mixing and ejecting operations without provision of complicated mechanisms such as valves. The printing device includes an ejecting nozzle with a first discharge opening and a metering nozzle with a second discharge opening, which are provided separately from each other to feed two kinds of fluids through the first and second discharge openings, respectively. The two kinds of fluids are mixed together to form a fluid mixture to be ejected toward a recording medium. A minimum distance  $d$  between the first and second discharge openings of the metering and ejecting nozzles is in the range of  $0 \leq d \leq 5 \sqrt{S_1}$  where  $S_1$  stands for an opening area of the first discharge opening of the ejecting nozzle. <IMAGE>

IPC 1-7  
**B41J 2/21**; **B41J 2/045**

IPC 8 full level  
**B41J 2/14** (2006.01); **B41J 2/21** (2006.01)

CPC (source: EP KR)  
**B41J 2/1404** (2013.01 - EP KR); **B41J 2/14201** (2013.01 - EP); **B41J 2/1433** (2013.01 - EP); **B41J 2/211** (2013.01 - EP);  
**B41J 2/14201** (2013.01 - KR); **B41J 2/1433** (2013.01 - KR); **B41J 2/211** (2013.01 - KR); **B41J 2002/14379** (2013.01 - EP KR);  
**B41J 2002/14475** (2013.01 - EP KR)

Cited by  
EP1622774A4; AU2007334792B2; EP1274551A4; EP1078761A3; EP0835759A1; US6139134A; GB2438180A; US6164748A; EP0895864A3;  
US6312120B1; US6676248B1; WO2008074589A1; US8282197B2; US7300619B2; US7183335B2; US7851122B2; US8106107B2;  
US9744720B2; US10335994B2; US7479510B2

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 0737585 A1 19961016**; **EP 0737585 B1 19990113**; CN 1140660 A 19970122; CN 1142855 C 20040324; DE 69601318 D1 19990225;  
DE 69601318 T2 19990826; KR 960037289 A 19961119

DOCDB simple family (application)  
**EP 96105732 A 19960411**; CN 96110335 A 19960412; DE 69601318 T 19960411; KR 19960011109 A 19960413