

Title (en)  
PRINTING DEVICE

Title (de)  
DRUCKVORRICHTUNG

Title (fr)  
DISPOSITIF D'IMPRESSION

Publication  
**EP 3851288 A4 20210929 (EN)**

Application  
**EP 19858730 A 20190626**

Priority  
• JP 2018170658 A 20180912  
• JP 2019025374 W 20190626

Abstract (en)  
[origin: EP3851288A1] A printing apparatus includes: an image forming unit performing image formation onto a can body; plural moving bodies each of which supports the can body in a rotatable state and moves toward the image forming unit; and a detection unit provided to each of the moving bodies to detect a phase of the can body.

IPC 8 full level  
**B41J 23/02** (2006.01); **B41J 2/21** (2006.01); **B41J 3/407** (2006.01); **B41J 3/413** (2006.01); **B41J 11/00** (2006.01); **B41J 29/38** (2006.01); **B65B 61/02** (2006.01)

CPC (source: EP)  
**B41J 3/40731** (2020.08); **B41J 3/40733** (2020.08); **B41J 3/413** (2013.01); **B41J 11/0095** (2013.01); **B41J 29/38** (2013.01); **B41J 2/2117** (2013.01)

Citation (search report)  
• [X1] US 9399236 B2 20160726 - PERRET JEAN LUC [FR], et al  
• [X1] WO 2016140015 A1 20160909 - SHOWA ALUMINUM CAN CORP [JP]  
• [X1] WO 2017187863 A1 20171102 - SHOWA ALUMINUM CAN CORP [JP]  
• [X1] JP 2016013548 A 20160128 - SHOWA ALUMINIUM CAN KK  
• [X1] US 9962978 B2 20180508 - IZUME MASAYUKI [JP]  
• [A] US 2009255423 A1 20091015 - VALLS JOSE [US]  
• [A] JP 2014104431 A 20140609 - SEIKO EPSON CORP  
• See references of WO 2020054178A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3851288 A1 20210721**; **EP 3851288 A4 20210929**; CN 112384372 A 20210219; CN 112384372 B 20220913; JP 2020040718 A 20200319; JP 7166114 B2 20221107; WO 2020054178 A1 20200319

DOCDB simple family (application)  
**EP 19858730 A 20190626**; CN 201980045697 A 20190626; JP 2018170658 A 20180912; JP 2019025374 W 20190626