

Title (en)  
RIBBON CARTRIDGE

Title (de)  
BANDKARTUSCHE

Title (fr)  
CARTOUCHE DE RUBAN

Publication  
**EP 3778247 A4 20211117 (EN)**

Application  
**EP 19778199 A 20190328**

Priority  
• JP 2018063685 A 20180329  
• JP 2018243215 A 20181226  
• JP 2019013905 W 20190328

Abstract (en)  
[origin: EP3778247A1] Provided is a downsized ribbon cartridge. A ribbon cartridge includes: a winding-side cylinder part that guides an ink ribbon and into which a winding shaft is inserted when the ribbon cartridge is installed in a cartridge installation part; a first ribbon guide that guides the ink ribbon at a position on a downstream side of the winding-side cylinder part in a feeding direction of the ink ribbon; and a second ribbon guide that guides the ink ribbon at a position on the downstream side of the ribbon guide in the feeding direction. The first ribbon guide is provided on an inner side of the second ribbon cartridge with respect to a guide imaginary line connecting the winding-side cylinder part and the second ribbon guide to each other when seen from a front side of the ribbon cartridge in an installation direction.

IPC 8 full level  
**B41J 17/32** (2006.01); **B41J 2/325** (2006.01); **B41J 3/407** (2006.01); **B41J 3/62** (2006.01); **B41J 32/00** (2006.01); **B41J 35/04** (2006.01)

CPC (source: EP KR US)  
**B41J 2/325** (2013.01 - EP KR US); **B41J 3/4075** (2013.01 - EP); **B41J 3/62** (2013.01 - EP KR); **B41J 17/32** (2013.01 - EP US); **B41J 32/00** (2013.01 - EP KR); **B41J 35/04** (2013.01 - EP KR); **B41J 3/62** (2013.01 - US)

Citation (search report)  
• [X] JP 2001150777 A 20010605 - BROTHER IND LTD  
• [X] WO 2006123865 A1 20061123 - PRINICS CO LTD [KR], et al  
• [E] EP 3778245 A1 20210217 - SEIKO EPSON CORP [JP], et al  
• [E] WO 2019187973 A1 20191003 - SEIKO EPSON CORP [JP]  
• [E] WO 2019189710 A1 20191003 - SEIKO EPSON CORP [JP], et al  
• [E] EP 3778246 A1 20210217 - SEIKO EPSON CORP [JP]  
• [A] JP 2017174299 A 20170928 - BROTHER IND LTD  
• [A] US 6812943 B1 20041102 - DAY ROBERT CHARLES LEWIS [GB], et al  
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• [A] US 2011008090 A1 20110113 - YAMAGUCHI KOSHIRO [JP], et al  
• [A] US 2010123282 A1 20100520 - MIYAKOSHI NAOTO [JP]  
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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

DOCDB simple family (publication)  
**EP 3778247 A1 20210217**; **EP 3778247 A4 20211117**; CN 111902293 A 20201106; CN 111902293 B 20221011; JP 2019171843 A 20191010; JP 7105688 B2 20220725; KR 102541083 B1 20230607; KR 20200136019 A 20201204; TW 201941975 A 20191101; TW 202039267 A 20201101; TW I700195 B 20200801; TW I795655 B 20230311

DOCDB simple family (application)  
**EP 19778199 A 20190328**; CN 201980021720 A 20190328; JP 2018243215 A 20181226; KR 20207030867 A 20190328; TW 108110469 A 20190326; TW 109122506 A 20190326