

Title (en)
Reel

Title (de)
Spule

Title (fr)
Bobine

Publication
EP 2368828 A3 20111221 (EN)

Application
EP 11169468 A 20070614

Priority
• EP 07745221 A 20070614
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Abstract (en)
[origin: EP2030936A1] A reel including a columnar wind-up unit 3 and a pair of opposing side plates 2 and 2 provided such that the wind-up unit is between the side plates, wherein the inner surface of at least one side plate 2 is provided with a projection 21.

IPC 8 full level
B65H 75/14 (2006.01)

CPC (source: EP KR US)
B65H 75/08 (2013.01 - KR); **B65H 75/14** (2013.01 - EP KR US); **B65H 2701/377** (2013.01 - EP US)

Citation (search report)
• [Y] US 1951151 A 19340313 - HOPKINS ARTHUR G
• [Y] GB 869979 A 19610607 - HALLMARK CARDS
• [Y] US 3099414 A 19630730 - KUIKA THOMAS S
• [Y] US 2004140392 A1 20040722 - SALIBA GEORGE [US]
• [Y] US 6196495 B1 20010306 - HWANG JAE-YOUNG [KR], et al

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

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EP 2030936 A1 20090304; EP 2030936 A4 20101222; CN 101479176 A 20090708; CN 102085983 A 20110608; CN 102085983 B 20130501; CN 102107803 A 20110629; EP 2364944 A2 20110914; EP 2364944 A3 20111221; EP 2368828 A2 20110928; EP 2368828 A3 20111221; JP 2011020859 A 20110203; JP 2011089126 A 20110506; JP 2012057176 A 20120322; JP 5024444 B2 20120912; JP 5293802 B2 20130918; JP WO2007148593 A1 20091119; KR 101330861 B1 20131118; KR 20090018831 A 20090223; TW 200825011 A 20080616; TW 201125803 A 20110801; TW 201125804 A 20110801; TW I360510 B 20120321; TW I360511 B 20120321; US 2009230233 A1 20090917; US 2011139916 A1 20110616; US 2011139922 A1 20110616; WO 2007148593 A1 20071227

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EP 07745221 A 20070614; CN 200780022859 A 20070614; CN 201110025280 A 20070614; CN 201110025291 A 20070614; EP 11169467 A 20070614; EP 11169468 A 20070614; JP 2007061964 W 20070614; JP 2008522411 A 20070614; JP 2010245529 A 20101101; JP 2010268264 A 20101201; JP 2011278716 A 20111220; KR 20087030993 A 20070614; TW 96122289 A 20070621; TW 99139965 A 20070621; TW 99139967 A 20070621; US 201113032599 A 20110222; US 201113032615 A 20110222; US 30625007 A 20070614