

Title (en)
Device for conveying empty rolls

Title (de)
Vorrichtung zum Transport von Restrollen

Title (fr)
Dispositif pour convoyer des rouleaux vides

Publication
EP 1612171 A1 20060104 (DE)

Application
EP 05107276 A 20021127

Priority
• EP 02787402 A 20021127
• DE 10159520 A 20011204

Abstract (en)
The emptying unit (07) contains a collector-container (12) into which the one or more residual reels -container (08) are automatically emptied. The residual reel container can be raised by means of a hoist (04). The emptying unit is integrated at least partly in a shelving unit (02) for storing paper rolls (03). The shelving unit incorporates a transfer unit (11) connected to the emptying unit by means of a conveyor section along which travels a carriage (19a).

IPC 8 full level
B65H 19/12 (2006.01)

CPC (source: EP US)
B65H 19/12 (2013.01 - EP US); **B65H 19/126** (2013.01 - EP US); **B65H 2301/41858** (2013.01 - EP US); **B65H 2405/422** (2013.01 - EP US); **B65H 2405/4221** (2013.01 - EP US)

Citation (search report)
• [A] DE 19860475 A1 20000706 - KOENIG & BAUER AG [DE]
• [A] NL 8802239 A 19900402 - ALUMINIUM EN ROESTVASTSTAAL CT
• [A] DE 2527778 A1 19761230 - SCHLAFHORST & CO W
• [A] DE 4344743 A1 19950629 - FALKENSTEIN LAGER FOERDERTECH [DE]
• [A] US 5762283 A 19980609 - BUCHMEYER THEODOOR ANTONIUS [NL], et al
• [A] WO 0068115 A1 20001116 - WESTFALIA WST SYSTEMTECHNIK [DE], et al
• [A] PATENT ABSTRACTS OF JAPAN vol. 013, no. 309 (P - 898) 14 July 1989 (1989-07-14)

Cited by
GB2457389A; GB2457389B; WO2008071904A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)
WO 03048015 A1 20030612; AT E323051 T1 20060415; AT E335691 T1 20060915; AT E356068 T1 20070315; AU 2002351698 A1 20030617; DE 10159520 A1 20030612; DE 10159520 B4 20050512; DE 50206418 D1 20060524; DE 50207827 D1 20060921; DE 50209692 D1 20070419; EP 1451086 A1 20040901; EP 1451086 B1 20060412; EP 1612171 A1 20060104; EP 1612171 B1 20060809; EP 1612172 A1 20060104; EP 1612172 B1 20070307; US 2005092864 A1 20050505; US 7094015 B2 20060822

DOCDB simple family (application)
DE 0204341 W 20021127; AT 02787402 T 20021127; AT 05107276 T 20021127; AT 05107281 T 20021127; AU 2002351698 A 20021127; DE 10159520 A 20011204; DE 50206418 T 20021127; DE 50207827 T 20021127; DE 50209692 T 20021127; EP 02787402 A 20021127; EP 05107276 A 20021127; EP 05107281 A 20021127; US 49630504 A 20040602