

Title (en)
Reel winder

Title (de)
Rollenwickler

Title (fr)
Bobineuse

Publication
EP 0933320 A3 20020731 (DE)

Application
EP 99101367 A 19990126

Priority
DE 19803137 A 19980128

Abstract (en)
[origin: DE19803137C1] The reel (3) has a support (4) to support it at its axis and a lower support frame (6) with multiple rollers (7-10) to engage its lower surface. The support rollers have axes parallel to the main reel and are mounted in pairs to pivot around further axes (14,15).

IPC 1-7
B65H 18/26

IPC 8 full level
B65H 18/02 (2006.01); **B65H 18/26** (2006.01)

CPC (source: EP US)
B65H 18/021 (2013.01 - EP US); **B65H 18/26** (2013.01 - EP US); **B65H 2301/41376** (2013.01 - EP US); **B65H 2301/4148** (2013.01 - EP US)

Citation (search report)

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

DOCDB simple family (publication)
DE 19803137 C1 19990610; DE 59909139 D1 20040519; EP 0933320 A2 19990804; EP 0933320 A3 20020731; EP 0933320 B1 20040414; US 6196492 B1 20010306

DOCDB simple family (application)
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