

Title (en)
APPARATUS FOR BOBBIN REMOVAL

Title (de)
VORRICHTUNG ZUR SPULENABNAHME

Title (fr)
DISPOSITIF D'ENLEVEMENT DE BOBINE

Publication
EP 1991485 B1 20100505 (DE)

Application
EP 07723045 A 20070306

Priority
• EP 2007001892 W 20070306
• DE 102006010855 A 20060309

Abstract (en)
[origin: US2008290206A1] An apparatus for bobbin removal in a winding machine has a projectingly held winding spindle for winding at least one bobbin. The apparatus further has a plurality of pivoting arms which in each case have a free plug-on end and an opposite holding end. The holding ends of the pivoting arms are connected to a pivoting shaft. At least one of the pivoting arms is held, in a removal position, in alignment with the winding spindle of the winding machine for the removal of the bobbin. The pivoting shaft is oriented horizontally, and the pivoting arms are guidable in a vertically oriented guidance plane.

IPC 8 full level
B65H 67/04 (2006.01); **B65H 67/06** (2006.01)

CPC (source: EP US)
B65H 67/0405 (2013.01 - EP US); **B65H 67/064** (2013.01 - EP US); **B65H 2701/31** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE CH DE IT LI TR

DOCDB simple family (publication)
US 2008290206 A1 20081127; AT E466803 T1 20100515; CN 101395079 A 20090325; CN 101395079 B 20120328;
DE 102006010855 A1 20070913; DE 502007003657 D1 20100617; EP 1991485 A1 20081119; EP 1991485 B1 20100505;
JP 2009529472 A 20090820; RU 2008139804 A 20100420; RU 2404109 C2 20101120; WO 2007101649 A1 20070913

DOCDB simple family (application)
US 18843808 A 20080808; AT 07723045 T 20070306; CN 200780007025 A 20070306; DE 102006010855 A 20060309;
DE 502007003657 T 20070306; EP 07723045 A 20070306; EP 2007001892 W 20070306; JP 2008557651 A 20070306;
RU 2008139804 A 20070306