

Title (en)  
MULTIPLE WINDING MACHINE

Title (de)  
MEHRFACH-WICKELMASCHINE

Title (fr)  
ENROULEUSE MULTIPLE

Publication  
**EP 1562845 A1 20050817 (DE)**

Application  
**EP 03793449 A 20030808**

Priority  
• DE 10253518 A 20021116  
• EP 0308803 W 20030808

Abstract (en)  
[origin: WO2004046005A1] A multiple winding machine comprising a turning arm (7) for at least two winding shafts (4,6) which is pivotably mounted in the machine frame (11). The turning arm (7) is pivotably mounted on a carrier arm (13) which is fixed to a carrier (12) of the machine frame (11) extending inward and being suspended in a downward direction, terminating at a distance from the ground such that an open region (16) is formed between the carrier arm (13) with the turning arm (7) and the ground.

IPC 1-7  
**B65H 19/28**

IPC 8 full level  
**B65H 18/10** (2006.01); **B65H 18/02** (2006.01); **B65H 19/22** (2006.01); **B65H 19/28** (2006.01); **B65H 19/30** (2006.01)

CPC (source: EP US)  
**B65H 18/0212** (2020.08 - EP US); **B65H 19/2215** (2013.01 - EP US); **B65H 19/28** (2013.01 - EP); **B65H 2301/522** (2013.01 - EP); **B65H 2408/23152** (2013.01 - EP); **B65H 2601/321** (2013.01 - EP)

Citation (search report)  
See references of WO 2004046005A1

Cited by  
CN108569578A

Designated contracting state (EPC)  
CH DE GB IT LI

DOCDB simple family (publication)  
**WO 2004046005 A1 20040603**; DE 10253518 A1 20040603; DE 10253518 B4 20050818; DE 50311429 D1 20090528; EP 1562845 A1 20050817; EP 1562845 B1 20090415; JP 2005531474 A 20051020; JP 4393384 B2 20100106

DOCDB simple family (application)  
**EP 0308803 W 20030808**; DE 10253518 A 20021116; DE 50311429 T 20030808; EP 03793449 A 20030808; JP 2004552451 A 20030808