

Title (en)  
Winding shaft with friction coupling

Title (de)  
Friktionswickelwelle

Title (fr)  
Arbre d'enroulement avec accouplement à friction

Publication  
**EP 0863101 A3 19991020 (DE)**

Application  
**EP 98101778 A 19980203**

Priority  
DE 19709078 A 19970306

Abstract (en)  
[origin: EP0863101A2] A friction winding shaft for winding strip materials onto cores (16) has a driven core shaft (20), friction rings (12) surrounding the core shaft and radially acting clamping elements (24). In operation the clamping elements apply radial force to friction elements (28) moving with the shaft which press the friction rings outwards to grip the core for torque transmission. Torque transfer between the friction rings and friction elements is less than the torque transmitted between the friction rings and the winding core ensuring the core is always gripped by the friction rings when the shaft is being rotated.

IPC 1-7  
**B65H 75/24**; **B65H 18/10**

IPC 8 full level  
**B65H 18/10** (2006.01); **B65H 75/24** (2006.01)

CPC (source: EP US)  
**B65H 18/106** (2013.01 - EP US); **B65H 75/2437** (2021.05 - EP US); **B65H 2301/4148** (2013.01 - EP US); **B65H 2403/731** (2013.01 - EP US); **B65H 2403/732** (2013.01 - EP US); **B65H 2405/45** (2013.01 - EP US)

Citation (search report)  
• [A] WO 9008089 A1 19900726 - SUNDWIGER EISEN MASCHINEN [DE]  
• [A] DE 3918863 A1 19901213 - STAHLKONTOR MASCHINENBAU [DE]

Cited by  
CN106904499A; DE102004053397A1; EP1655258A3; DE10109104A1; DE10109104C2; EP2484613A3; DE202010000100U1; EP1655258A2; US8998122B2; US6729571B2; WO02068304A1

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