

Title (en)
Winding shaft with friction coupling

Title (de)
Friktionswickelwelle

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

Publication
EP 0603636 B1 19970709 (DE)

Application
EP 93119735 A 19931208

Priority
DE 4244218 A 19921224

Abstract (en)
[origin: US5451010A] The instant invention relates to a friction winding shaft, in particular for roll cutting and winding machines with a central drive shaft (8) and fitted, adjoining rings (12) on which tubular winding cores (21) are held under pre-stress via winding core retainers 16. According to the invention, winding core supports (27, 28) which automatically press against the inside winding core surfaces (22) after the start of the winding process to provide firm support are proposed. This provides improved centering and alignment of the winding cores (21). For this purpose each ring (12) is divided concentrically into an inner friction ring (17) and an outer holding ring (18) capable of rotation relative to the former. The inner friction ring (17) is provided with a slanted guide (31, 36) through which a pressure rod (29) or a rotatable support element (32) can be extended into a position of contact against the inside winding core surface (22).

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B65H 75/24

IPC 8 full level
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B65H 75/2437 (2021.05 - EP US); **B65H 75/246** (2013.01 - EP US); **B65H 2403/731** (2013.01 - EP US)

Cited by
CN108382903A; GB2300460A; GB2300460B; ES2132006A1; US9033128B2

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