

Title (en)
Multi width winding machine.

Title (de)
Mehrbreiten Wickelmaschine.

Title (fr)
Enrouleuse multi-laize.

Publication
EP 0409311 B1 19931103 (FR)

Application
EP 90201844 A 19900709

Priority
BE 8900776 A 19890717

Abstract (en)
[origin: EP0409311A1] The winding machine comprises a supporting central drive tube (1), winding reels (2), equipped with self-locking system (3) for receiving reeling mandrels (4), disposed in succession around the supporting central drive tube, the said reels (2) each being connected to this tube via a magnetic coupling (16), (17), (18) disposed inside the said tube and connected, on the one hand, rigidly to this tube (1) and, on the other hand, to the reel (2) in which the linkage between the magnetic coupling (16), (17), (18) and the reel (2) is provided via a speed-multiplying device (6), (6'), (6''), (13) which is also disposed in the supporting central drive tube (1). The winding machine enables a series of machine widths cut out in the web material to be reeled up and this is done with controlled winding tensions. <IMAGE>

IPC 1-7
B65H 18/10

IPC 8 full level
B65H 18/10 (2006.01)

CPC (source: EP US)
B65H 18/106 (2013.01 - EP US); **B65H 2301/4148** (2013.01 - EP US); **B65H 2403/724** (2013.01 - EP US)

Citation (examination)
GB 2121386 A 19831221 - KAMPF GMBH & CO MASCHF

Cited by
US8360354B2; WO2009063139A1

Designated contracting state (EPC)
DE ES FR IT NL

DOCDB simple family (publication)
EP 0409311 A1 19910123; EP 0409311 B1 19931103; BE 1004362 A4 19921110; BR 9003456 A 19910827; DE 69004362 D1 19931209; DE 69004362 T2 19940511; ES 2047825 T3 19940301; US 5123603 A 19920623

DOCDB simple family (application)
EP 90201844 A 19900709; BE 8900776 A 19890717; BR 9003456 A 19900717; DE 69004362 T 19900709; ES 90201844 T 19900709; US 55251890 A 19900716