Title (en)

CORELESS ADHESIVE TAPE WINDING MANDREL AND METHOD

Title (de)

WICKELDORN UND VERFAHREN ZUM KERNLOSEN WICKELN VON KLEBEBAND

Title (fr)

MANDRIN ET PROCEDE DE BOBINAGE POUR RUBAN ADHESIF SANS TUBE

Publication

EP 0830304 A1 19980325 (EN)

Application

EP 96916713 A 19960529

Priority

- US 9607865 W 19960529
- US 47328595 A 19950607

Abstract (en)

[origin: WO9640578A1] A method and apparatus (20) for forming coreless rolls (15) of pressure sensitive adhesive tape involves the use of a mandrel assembly (55) having a specific circumferential tape supporting segment (234) thereon for winding tape. The circumferential tape supporting segments (234) has a tape engaging surface portion (246) that, in a radial orientation, is compressible yet sufficiently stiff to support the tape as it is successively wound about the mandrel (55) to form a tape roll (15), and that is sufficiently pliant to permit ready axial removal of a wound tape roll (15) from the mandrel (55). The innermost wrap (72) of pressure sensitive adhesive tape about the mandrel (55) is masked by an adhesive liner (73). That liner (73) is formed from one portion of a liner/tab strip (123) which had been applied to the tape previously, and prior to winding, the tape is severed, and the remainder of that liner/tab (76) forms an end tab on the outermost end (75) of the previously formed coreless tape roll (15). The circumferential tape supporting segment (234) of the mandrel (55) is supported on a rotatable shaft (210) and its surface portion (246) may be defined by a plurality of pliant stems (248) extending generally outwardly from the shaft (210) at approximately equal height. The circumferential tape supporting segment (234) may further include a tubular section of material (244) bearing the tape engaging surface portion (246), which may be rotatable about the shaft (210).

IPC 1-7

B65H 18/04; B65H 19/22; B65H 19/28; B65H 18/28; B65H 18/10

IPC 8 full level

B65H 18/04 (2006.01); **B65H 18/10** (2006.01); **B65H 18/28** (2006.01); **B65H 19/22** (2006.01); **B65H 19/28** (2006.01); **B65H 75/08** (2006.01); **B65H 75/28** (2006.01)

CPC (source: EP KR)

B65H 18/04 (2013.01 - EP KR); **B65H 18/106** (2013.01 - EP); **B65H 18/28** (2013.01 - EP); **B65H 19/2223** (2013.01 - EP); **B65H 19/2284** (2013.01 - EP); **B65H 19/2292** (2013.01 - EP); **B65H 19/28** (2013.01 - EP); **B65H 75/08** (2013.01 - EP); **B65H 75/28** (2013.01 - EP); B65H 2301/41468 (2013.01 - EP); B65H 2301/41486 (2013.01 - EP); B65H 2301/41487 (2013.01 - EP); B65H 2408/23157 (2013.01 - EP); B65H 2701/1846 (2013.01 - EP)

Citation (search report)

See references of WO 9640578A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

WO 9640578 A1 19961219; CA 2221182 A1 19961219; CN 1071697 C 20010926; CN 1187168 A 19980708; DE 69612493 D1 20010517; DE 69612493 T2 20011122; EP 0830304 A1 19980325; EP 0830304 B1 20010411; JP H11506717 A 19990615; KR 19990022223 A 19990325

DOCDB simple family (application)

US 9607865 W 19960529; CA 2221182 A 19960529; CN 96194548 A 19960529; DE 69612493 T 19960529; EP 96916713 A 19960529; JP 50079297 A 19960529; KR 19970708702 A 19971202