

Title (en)

Machine with electric motor, preferably synchronuos motor, for directly driving a winding core of a winding roll, especially for use in the paper industry, and related method for modification

Title (de)

Maschine mit einem vorzugsweise als Synchronmotor ausgeführten und zum Direktantrieb eines Wickelkerns einer Wickelrolle dienenden Elektromotors, insbesondere zur Verwendung in der Papierindustrie, und sich hierauf beziehendes Umbauverfahren

Title (fr)

Machine avec moteur électrique, de préférence moteur synchrone, pour entraîner directement le noyau d' une bobine, spécialement pour l'usage dans l'industrie de papier, et méthode de transformation en rapport avec cette machine

Publication

EP 1460010 A3 20051116 (DE)

Application

EP 04006599 A 20040318

Priority

- DE 10312198 A 20030319
- DE 102004001467 A 20040109

Abstract (en)

[origin: EP1460010A2] A continuous web of paper or carton winds onto a spool core (108) that is directly driven and rotated by a synchronous electric motor ('torque motor') (12) attached to the machine frame. The motor is located at the axial end zone of the core. The rotor of link fitting (18) is or can be directly coupled to the core drive interface (24). The core may be part of a dry cylinder in a dry section, or a winding core forming part of a spool. Also claimed is a process to operate a commensurate machine. Further claimed is a process to retro-fit a torque motor in place of prior art drive systems.

IPC 1-7

B65H 18/00

IPC 8 full level

B65H 16/10 (2006.01); **B65H 18/10** (2006.01)

CPC (source: EP)

B65H 16/103 (2013.01); **B65H 18/10** (2013.01); **B65H 2403/00** (2013.01)

Citation (search report)

- [XA] US 5622328 A 19970422 - NORLEY MICHAEL [US]
- [XAY] US 4804898 A 19890214 - NORDLOF RICHARD D [US], et al
- [X] DE 19742787 A1 19990401 - VOITH SULZER PAPIERTECH PATENT [DE]
- [XA] EP 1158188 A1 20011128 - VOITH PAPER PATENT GMBH [DE]
- [A] DE 19722209 A1 19981203 - VOITH SULZER PAPIERMASCH GMBH [DE]
- [Y] WO 0186780 A1 20011115 - ABB RESEARCH LTD [CH], et al
- [A] DE 10025316 A1 20011129 - VOITH PAPER PATENT GMBH [DE]
- [A] DE 8703410 U1 19870521
- [A] DE 10035578 A1 20020131 - VOITH PAPER PATENT GMBH [DE]
- [AY] EP 1225143 A2 20020724 - ANDRITZ AG MASCHF [AT]
- [A] DE 4401959 A1 19940721 - VOITH GMBH J M [DE]
- [A] AT 409853 B 20021227 - ANDRITZ AG MASCHF [AT]
- [A] WO 03018455 A1 20030306 - METSO PAPER INC [FI], et al
- [A] DE 19735590 A1 19981119 - VOITH SULZER PAPIERMASCH GMBH [DE]
- [A] DE 10137063 A1 20030213 - VOITH PAPER PATENT GMBH [DE]
- [A] US 5375790 A 19941227 - SVANQVIST TORD O S [SE]
- [A] US 4944467 A 19900731 - SNYGG KEIJO K [FI]
- [XA] WO 0186781 A1 20011115 - ABB RESEARCH LTD [CH], et al
- [A] EP 0595229 A2 19940504 - RUEEGG ANTON [CH]
- [PA] EP 1331306 A1 20030730 - VOITH PAPER PATENT GMBH [DE]
- [A] DE 10117398 A1 20021010 - MISCEL OY LTD [FI]

Cited by

CN113135321A; EP1764326A3; CN103466365A; EP1764325A3; EP1790597A1; CN101873984A; ES2482390A1; CN111183105A; EP1764326A2; DE102008000042A1; EP1714929A1; EP1790598A2; WO2018229588A1; WO2005073114A3; WO2014057142A1; WO2019034680A1; DE102022120317A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1460010 A2 20040922; **EP 1460010 A3 20051116**; **EP 1460010 B1 20100804**; EP 1787929 A1 20070523; EP 1790599 A1 20070530; EP 1790599 B1 20100825

DOCDB simple family (application)

EP 04006599 A 20040318; EP 07004788 A 20040318; EP 07004789 A 20040318