

Title (en)
WINDER FOR SYNTHETIC FILAMENTS

Title (de)
WICKLER FÜR SYNTHETISCHE FILAMENTE

Title (fr)
BOBINOIR POUR FILAMENTS SYNTHETIQUES

Publication
EP 1028908 B1 20020724 (EN)

Application
EP 98950959 A 19981006

Priority

- US 9821047 W 19981006
- US 94421797 A 19971006
- US 16630998 A 19981005

Abstract (en)
[origin: WO9918024A1] A compact multi-position spindle-and-turret winder for winding synthetic continuous fibers having a first winding position and one-four subsequent indexed winding positions and a method for winding continuous filaments are provided.

IPC 1-7
B65H 67/048; **B65H 54/70**

IPC 8 full level
B65H 54/70 (2006.01); **B65H 67/048** (2006.01)

CPC (source: EP)
B65H 54/70 (2013.01); **B65H 67/048** (2013.01); **B65H 2701/319** (2013.01)

Cited by
EP4245705A1; WO2024115670A1

Designated contracting state (EPC)
DE IT

DOCDB simple family (publication)
WO 9918024 A1 19990415; CN 1135203 C 20040121; CN 1273559 A 20001115; DE 69806795 D1 20020829; DE 69806795 T2 20030403; EP 1028908 A1 20000823; EP 1028908 B1 20020724; JP 2002515388 A 20020528; JP 3453359 B2 20031006

DOCDB simple family (application)
US 9821047 W 19981006; CN 98809904 A 19981006; DE 69806795 T 19981006; EP 98950959 A 19981006; JP 2000514844 A 19981006