

Title (en)
SUPPORT D'ENROULEMENTS

Publication
EP 0158323 B1 19880713 (DE)

Application
EP 85104286 A 19850409

Priority
DE 8411284 U 19840411

Abstract (en)
[origin: US4823565A] A winding support for the treatment of threads or yarns includes a shell ring having openings formed therein, the shell ring having two end rings and intermediate rings disposed between the end rings, the intermediate rings being formed of a multiplicity of ring elements, and spacer elements interconnecting the ring elements in the shell ring, all of the spacer elements having surfaces extended in the same direction.

IPC 1-7
D06B 23/04; **B65H 75/24**

IPC 8 full level
B65H 75/24 (2006.01); **D06B 23/04** (2006.01)

CPC (source: EP US)
D06B 23/042 (2013.01 - EP US)

Cited by
US6032890A; EP0315285A1; US4872621A

Designated contracting state (EPC)
BE DE FR GB IT NL

DOCDB simple family (publication)
EP 0158323 A1 19851016; **EP 0158323 B1 19880713**; DE 3563757 D1 19880818; DE 8411284 U1 19840816; US 4823565 A 19890425

DOCDB simple family (application)
EP 85104286 A 19850409; DE 3563757 T 19850409; DE 8411284 U 19840411; US 17789588 A 19880329