

Title (en)  
Cone type bobbin supplying device

Title (de)  
Liefergerät für kegelförmige Hülsen

Title (fr)  
Dispositif d'alimentation de tubes coniques

Publication  
**EP 1457449 A3 20041208 (EN)**

Application  
**EP 04001008 A 20040119**

Priority  
JP 2003040720 A 20030219

Abstract (en)  
[origin: EP1457449A2] The present invention provides a cone type bobbin supplying device that can separate one cone type bobbin from a bobbin aggregate (10) in which a plurality of cone type bobbins are laminated so that one bobbin is fitted into another, the cone type bobbin supplying device enabling the separated cone type bobbin to be reliably conveyed. A cone type bobbin supplying device supplies cone type bobbins (11,12,13...) to a yarn winding device by separating one cone type bobbin from a bobbin aggregate in which a plurality of cone type bobbins are laminated so that one bobbin is fitted into another. A separating member (1) includes a round bar portion (1A) having a diameter slightly smaller than the bore size of a small-diameter head portion of each of the laminated cone type bobbins and a cradle (1D) that receives the small-diameter head portion (11A) of the separated bobbin. The round bar portion of the separating member is inserted into the bobbin aggregate from the small-diameter head portion of the cone type bobbins so that the round bar portions will not contact with the cradle. Furthermore, compressed air is jetted from a plurality of air jetting pores formed in the round bar portion. <IMAGE>

IPC 1-7  
**B65H 67/06**

IPC 8 full level  
**B65H 67/06** (2006.01); **D01H 9/18** (2006.01)

CPC (source: EP)  
**B65H 67/067** (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)

- [X] US 2672991 A 19540323 - PETERS FLOYD G
- [X] US 4052250 A 19771004 - POTTS ROBERT G
- [AD] EP 0313108 A1 19890426 - RIETER AG MASCHF [CH]
- [A] PATENT ABSTRACTS OF JAPAN vol. 1995, no. 11 26 December 1995 (1995-12-26)

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 PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1457449 A2 20040915**; **EP 1457449 A3 20041208**; CN 1523144 A 20040825; JP 2004250140 A 20040909

DOCDB simple family (application)  
**EP 04001008 A 20040119**; CN 200410005233 A 20040217; JP 2003040720 A 20030219