

Title (en)

Expanding shaft with self-centring splines

Title (de)

Aufspreizbare Welle mit selbstzentrierenden Schienen

Title (fr)

Arbre expansible avec barres à centrage automatique

Publication

**EP 0819644 A1 19980121 (EN)**

Application

**EP 97111754 A 19970710**

Priority

IT MI960512 U 19960717

Abstract (en)

Expandable shaft for supporting bobbins, of the type comprising a hollow cylinder (1), housing inside it a plurality of locking modules (Mi) and having, corresponding with each of these modules (Mi), a plurality of short openings (3) distributed circumferentially over its surface, through which retractable blocks (2) are made to emerge, each module (Mi) having an axially slidable thrusting element (5) which engages with said blocks (2) by means of surfaces (6) inclined with respect to the longitudinal axis of the shaft, a spline (4) which extends longitudinally substantially over the whole length of the shaft being fixed externally onto each plurality of blocks (2) of the modules (Mi) corresponding to one another in an axial alignment.  
<IMAGE>

IPC 1-7

**B65H 75/24**

IPC 8 full level

**B65H 75/24** (2006.01)

CPC (source: EP US)

**B65H 75/2484** (2021.05 - EP US)

Citation (search report)

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