

Title (en)
SUPPORT SPINDLE FOR WINDABLE MATERIAL COILS

Title (de)
STÜTZSPINDEL FÜR AUFWICKELBARE MATERIALSPULEN

Title (fr)
AXE-SUPPORT POUR BOBINES DE MATÉRIAU ENROULABLES

Publication
EP 3954639 A1 20220216 (EN)

Application
EP 21188482 A 20210729

Priority
IT 202000019849 A 20200810

Abstract (en)
A support spindle (1) to engage a tubular winding core (2), comprises a central shaft (5) defining a rotation axis (6) and forming a connecting portion (7) and a supporting portion (9) extending from the connecting portion (8) along the rotation axis (6), a plurality of cam seats (11) formed in the supporting portion (9), a plurality of locking bodies (12) arranged radially outside the supporting portion (9) and in contact, by means of cam-follower members (13), with the cam seats (11), a supporting cage (14) connected to the central shaft (5) and which accommodates the locking bodies (12) so that the locking bodies (12) can slide radially to the rotation axis (6) with respect to the central shaft (5) and rotate about the rotation axis (6) with respect to the central shaft (5), wherein a relative rotation between the locking bodies (12) and the central shaft (5) along an angular stroke (16) causes a radial displacement of the locking bodies (12) between a retracted position and an expanded position, wherein the cam-follower members (13) form a first convex cam surface (17) in contact with a second concave cam surface (18) of the corresponding cam seat (11).

IPC 8 full level
B65H 75/24 (2006.01)

CPC (source: EP US)
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Citation (search report)

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