

Title (en)

DEVICE AND METHOD FOR CONTROLLING A BALLOON, WINDING UNIT COMPRISING SAID DEVICE

Title (de)

VORRICHTUNG UND VERFAHREN ZUR STEUERUNG EINES BALLONS, WICKELEINHEIT MIT EINER SOLCHEN VORRICHTUNG

Title (fr)

DISPOSITIF ET MÉTHODE DE CONTRÔLE D'UN BALLON, UNITÉ D'ENROULEMENT COMPORTANT UN TEL DISPOSITIF

Publication

**EP 3950551 A1 20220209 (EN)**

Application

**EP 21187905 A 20210727**

Priority

IT 202000019660 A 20200807

Abstract (en)

A device (12) for controlling a balloon during the unwinding of a yarn (14) from a bobbin (16) in a winding unit (18), comprising: a first substantially tubular containment element (20), having a longitudinal axis (x) and a through opening (22) adapted for the passage of the yarn (14) leaving said bobbin (16); and a support (24) adapted to support said first containment element (20), and adapted to be fixed to a structure of a winding unit (18). The first containment element (20) comprises a first containment component (120) and a second containment component (220). The support (24) comprises a first arm (124) and a second arm (224) on which the first containment component (120) and the second containment component (220) are respectively positioned. The device (12) comprises drive means (26) suitable for driving the arms (124, 224), and consequently the containment components (120, 220), between two positions: a first position, in which the containment components (120, 220) are spaced apart from each other, and a second position, in which the containment components (120, 220) are closer together with respect to the first position. The device (12) comprises a second static containment element (50), provided downstream from said first containment element (20). The second containment element (50) is provided with a second through opening (52) comprising a base portion (54) in use facing toward the first containment element (20), having a substantially rectangular cross section relative to the longitudinal axis (x).

IPC 8 full level

**B65H 57/22** (2006.01)

CPC (source: CN EP)

**B65H 54/44** (2013.01 - CN); **B65H 57/22** (2013.01 - EP); **B65H 67/0411** (2013.01 - CN); **B65H 75/243** (2013.01 - CN); **B65H 2701/31** (2013.01 - EP)

Citation (search report)

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- [A] US 4917326 A 19900417 - KOJIMA TOSHIKI [JP], et al
- [A] US 5377923 A 19950103 - MATSUI ISAMU [JP], et al

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

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