

Title (en)  
FABRIC ROLLER DEVICE

Title (de)  
STOFFROLLENVORRICHTUNG

Title (fr)  
DISPOSITIF DE ROULEAU DE TISSU

Publication  
**EP 4180613 A1 20230517 (EN)**

Application  
**EP 22206344 A 20221109**

Priority  
IT 202100028616 A 20211110

Abstract (en)  
Fabric roller device comprising a box (2), a take-up roller (3), rotatably supported within the box (2) and a windable sheet (4), susceptible of being wound around the take-up roller (3). The device (1) also comprises at least one torsion spring (5) extended between a first end (5') mechanically connected and integral in rotation with the take-up roller (3) and an opposite second end (5'') mechanically connected to the box (2) and susceptible of taking on at least one preloading position, in which the second end (5'') is twisted with respect to the first end (5'). The device (1) also comprises loading means (9), which comprise a loading gear (91), mechanically connected to the second end (5'') of the torsion spring, and actuatable in order to rotate in a loading direction the second end (5'') with respect to said first end (5') and position the torsion spring (5) in a first preloading configuration in which the second end (5'') is placed in a first preloading position. The adjustment means (9) also comprise a worm screw (92), rotatably mounted in the box (2), mechanically engaged with the loading gear (91) and actuatable in order to rotate the loading gear (91) in the loading direction and position the torsion spring (5) in a second preloading configuration in which the second end (5'') is placed in a second preloading position. The worm screw (92) is arranged for preventing the rotation of the loading gear (91) at least in a direction opposite the loading direction and retaining the second end (5'') in the preloading position.

IPC 8 full level  
**E06B 9/42** (2006.01); **E06B 9/60** (2006.01)

CPC (source: EP)  
**E06B 9/42** (2013.01); **E06B 9/60** (2013.01)

Citation (applicant)  
US 2008314533 A1 20081225 - PARK WOO DAE [KR]

Citation (search report)  
• [A] US 2008314533 A1 20081225 - PARK WOO DAE [KR]  
• [A] JP 2007247216 A 20070927 - VINYFRAME IND CO LTD  
• [A] EP 1925773 A1 20080528 - DATE SYSTEM S R L [IT]

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Designated extension state (EPC)  
BA

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KH MA MD TN

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