Title (en)
   HINGE DEVICE

Title (de)
   SCHARNIERVORRICHTUNG

Title (fr)
   DISPOSITIF DE CHARNIÈRE

Publication
   EP 3272979 A4 20181205 (EN)

Application
   EP 16764703 A 20160303

Priority
   • JP 2015052172 A 20150316
   • JP 2016056524 W 20160303

Abstract (en)
   [origin: EP3272979A1] It is an object to prevent an angle of a second member such as a door from being changed when tension is applied to an
   endless connecting body in a hinge device. An endless connecting body 30 is wound around between a first rotating body 21 in a first end portion
   11 of an arm 10 of a hinge device 3 and a second rotating body 22 in a second end portion 12 of the arm 10 of the hinge device 3 to connect the
   rotating bodies 21, 22 with each other so that the rotating bodies 21, 22 can be rotated with respect to the arm 10 in the same direction. Positions
   of a first intermediate body 41 and a second intermediate body 42 are adjusted by adjusting means 43 of tension applying means 40 to tense a first
   bridging portion 31 and a second bridging portion 32 of the endless connecting body 30, thereby applying the tension to the endless connecting
   body 30.

IPC 8 full level
   E05D 3/12 (2006.01)

CPC (source: EP)
   E05D 3/12 (2013.01); **E05D 3/127** (2013.01); E05Y 2201/62 (2013.01); E05Y 2201/652 (2013.01); E05Y 2900/20 (2013.01);
   E05Y 2900/30 (2013.01); E05Y 2900/50 (2013.01)

Citation (search report)
   • [XI] EP 1772370 A2 20070411 - BESENZONI S P A [IT]
   • [XDI] US 5289615 A 19940301 - BANKS EDDIE D [US], et al
   • [Y] DE 10325232 A1 20050105 - OPEL ADAM AG [DE]
   • [Y] JP 2001020607 A 20010123 - ITOKI CREBIO CORP
   • See references of WO 2016147873A1

Cited by
   US11384581B2

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

DOCDB simple family (publication)
   EP 3272979 A1 20180124; **EP 3272979 A4 20181205**; CN 107429531 A 20171201; CN 107429531 B 20191001; JP 6294968 B2 20180314;
   JP WO2016147873 A1 20170427; WO 2016147873 A1 20160922

DOCDB simple family (application)
   EP 16764703 A 20160303; CN 201680014829 A 20160303; JP 2016056524 W 20160303; JP 2016538128 A 20160303