

Title (en)

APPARATUS FOR CONTROLLING THE WINDING UP AND UNWINDING ON ROLLS OF TOWELING OR THE LIKE

Publication

EP 0059893 A3 19830126 (EN)

Application

EP 82101456 A 19820225

Priority

IT 2006481 A 19810227

Abstract (en)

[origin: EP0059893A2] The apparatus controls the unwinding and the winding up of rolls of towelling, wherein roll B1 during winding up is held on a wind-up roller 160 whose journals 162 are engaged in grooves 164 of two bars 166 mounted on support plates E1 and E2 of the support structure E of the apparatus. The weight of the roll B1 being wound up rests on the periphery of a pull roller 92 actuated by gear means F2 ending in a pull roller 48, which, in turn, is actuated by the pull exerted by the user on a loop B6 formed by a length of toweling B between the roll B1 and the unwound roll B2. The latter roll is rotatably disposed on an arcuate bottom of a pivotable receptacle A3 supported on a base plate A1 of the cabinet A of the apparatus on a slidable pivot 14. The other end of plate B6 extends either through an interspace 38 or between two bars 156-158; all said parts are located rearwardly of the base A1. Suitable devices F2, F3, actuated by the pull roller 48, control by sensing means F4 either the length of the loop B6 from time to time formed beneath the cabinet A of the apparatus or the withdrawal on the wound-up roll B1 of the end of the toweling being unwound from unwinding roll B2.

IPC 1-7

A47K 10/28

IPC 8 full level

A47K 10/28 (2006.01)

CPC (source: EP)

A47K 10/28 (2013.01)

Citation (search report)

- [X] US 3858951 A 19750107 - RASMUSSEN HOLGER
- [A] US 3563623 A 19710216 - WALTON RICHARD RHODES
- [A] FR 2226964 A1 19741122 - STEINER CO LAUSANNE SA [CH]

Cited by

EP1066785A1; EP0250256A3; US5820231A; EP0138562A3; EP1053712A1; WO0101837A1; WO9600516A1

Designated contracting state (EPC)

AT BE CH DE FR GB LI LU NL SE

DOCDB simple family (publication)

EP 0059893 A2 19820915; EP 0059893 A3 19830126; DE 59893 T1 19830428; DK 84882 A 19820828; ES 509970 A0 19830201; ES 8303068 A1 19830201; FI 820694 L 19820828; GR 75516 B 19840725; IT 1167526 B 19870513; IT 8120064 A0 19810227; NO 820601 L 19820830; PT 74493 A 19820301; PT 74493 B 19830817

DOCDB simple family (application)

EP 82101456 A 19820225; DE 82101456 T 19820225; DK 84882 A 19820226; ES 509970 A 19820226; FI 820694 A 19820226; GR 820167432 A 19820226; IT 2006481 A 19810227; NO 820601 A 19820225; PT 7449382 A 19820226