

Title (en)
PULL-DOWN DEVICE FOR KNITTED FABRIC

Title (de)
KLAPPVORRICHTUNG FÜR MASCHENWARE

Title (fr)
DISPOSITIF DE TIRAGE DU TRICOT

Publication
EP 3751039 A1 20201216 (EN)

Application
EP 20178932 A 20200609

Priority
JP 2019108272 A 20190610

Abstract (en)
There is provided a pull-down device for fabric that prevents unevenness of pressures on a middle part surfaces in a knitting width direction such that the application of the pressure to the middle part does not affect the operation of opening pull-down members. The pull-down device for fabric 1 includes a pressure lever 5 on the middle part in the knitting width direction to apply pressures between main rollers 3, 4. Opening and closing mechanisms provided on both sides in the knitting width direction swing to open and close the main roller 4 with respect to the main roller 3. The opening and closing mechanisms on the both sides are interlocked to swing by an opening and closing shaft 6 extending in the knitting width direction. The pressure lever 5 is inserted into the opening and closing shaft 6 to swing on the opening and closing shaft 6 as a fulcrum point. A switch member 7 is interposed between the opening and closing shaft 6 and the pressure lever 5. An interlocking switch part 12 is formed between a hole 7c in the switch member 7 and a pin 5e on the pressure lever 5. Even when the main rollers 3, 4 are closed, the interlocking switch part 12 makes effective the application of pressures by a pressure spring 8 within a gap between the hole 7c and the pin 5e so that the application of the pressures does not affect the opening operation.

IPC 8 full level
D04B 15/90 (2006.01)

CPC (source: CN EP KR)
D04B 7/00 (2013.01 - KR); **D04B 15/90** (2013.01 - EP KR); **D04B 15/96** (2013.01 - CN); **D04B 35/02** (2013.01 - KR)

Citation (applicant)
• WO 2011018891 A1 20110217 - SHIMA SEIKI MFG [JP], et al
• JP H0665780 B2 19940824

Citation (search report)
• [AD] WO 2011018891 A1 20110217 - SHIMA SEIKI MFG [JP], et al
• [A] EP 0893527 A2 19990127 - MECMOR SPA [IT]

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)
BA ME

DOCDB simple family (publication)
EP 3751039 A1 20201216; **EP 3751039 B1 20220914**; CN 112064189 A 20201211; CN 112064189 B 20220510; JP 2020200551 A 20201217; JP 7204582 B2 20230116; KR 102393160 B1 20220429; KR 20200141393 A 20201218

DOCDB simple family (application)
EP 20178932 A 20200609; CN 202010521793 A 20200610; JP 2019108272 A 20190610; KR 20200068783 A 20200608