

Title (en)
Cable tensioner with a winding reel for a ski boot.

Title (de)
Seilspanner mit Wickeltrommel für Skischuh.

Title (fr)
Tendeur de câble à enrouleur pour chaussure de ski.

Publication
EP 0368798 A1 19900516 (FR)

Application
EP 89810792 A 19891020

Priority
CH 416388 A 19881109

Abstract (en)
[origin: JPH02180201A] PURPOSE: To enable to release a drum by only pressing a handle and to easily rotate the drum by using one of members of a nonreturn mechanism, by equipping the device with a winding drum with teeth by an external handle and a nonreturn mechanism which is released by handle operation. CONSTITUTION: A drum 2 equipped with a flange is mounted in a housing 1 and the flange 4 on its upside contacts under a gear 7. The gear engages with a pinion 10 which connects to a handle 12 through a rotary axis 11. A cylindrical part 13 extends from the pinion, the rotary axis is extended to form one of constituent members of a one way axis joint mechanism, and members 14 other than the joint mechanism are fixed on the bottom part of a cylindrical protrusion 15. The member 13 is held at a high position. Thus the drum is rotated by rotating the handle to wind a cable 5. The drum does not rotate in the reverse direction by a nonreturn mechanism 13/14. However, by pressing the handle, the drum is instantly released to enable to slightly relax the tension of the cable.

Abstract (fr)
Tendeur de câble comprenant un tambour enrouleur (2) entraînable en rotation par une poignée (12) par l'intermédiaire d'un pignon (10) engrenant avec une roue dentée (7). Le pignon (10) fait partie d'un dispositif anti-retour (13, 14). Une pression sur la poignée (12) libère le tambour du dispositif anti-retour. Selon une autre forme d'exécution, le dispositif anti-retour est constitué d'un engrenage à vis sans fin et la libération du tambour se fait par déplacement de celui-ci.

IPC 1-7
A43B 5/04; **A43C 11/16**

IPC 8 full level
A43B 5/04 (2006.01); **A43C 11/16** (2006.01)

CPC (source: EP US)
A43B 5/0449 (2013.01 - EP US); **A43C 11/16** (2013.01 - EP US); **A43C 11/165** (2013.01 - EP US); **Y10T 24/2183** (2015.01 - EP US)

Citation (search report)
• [YD] DE 2341658 A1 19740307 - POLYAIR MASCHB GMBH
• [Y] EP 0247487 A2 19871202 - NORDICA SPA [IT]
• [A] EP 0132744 A1 19850213 - NORDICA SPA [IT]
• [AD] EP 0056953 A2 19820804 - NORDICA SPA [IT]
• [A] FR 2593682 A1 19870807 - DYNAFIT GMBH [AT]
• [A] US 4360979 A 19821130 - SPADEMAN RICHARD G

Cited by
EP2789251A1; EP3636097A1; EP2359708A1; WO2023078893A1

Designated contracting state (EPC)
AT DE FR IT SE

DOCDB simple family (publication)
EP 0368798 A1 19900516; **EP 0368798 B1 19930901**; AT E93691 T1 19930915; CH 677586 A5 19910614; DE 68908849 D1 19931007; JP H02180201 A 19900713; US 4961544 A 19901009

DOCDB simple family (application)
EP 89810792 A 19891020; AT 89810792 T 19891020; CH 416388 A 19881109; DE 68908849 T 19891020; JP 29015789 A 19891109; US 41032189 A 19890920