

Title (en)
TIGHTENING DEVICE FOR TIGHTENING AN ARTICLE

Title (de)
SPANNVORRICHTUNG ZUM SPANNEN EINES GEGENSTANDES

Title (fr)
DISPOSITIF DE SERRAGE POUR LE SERRAGE D'UN ARTICLE

Publication
EP 4084644 A4 20240117 (EN)

Application
EP 20908468 A 20201231

Priority
• US 201962955745 P 20191231
• US 202063004363 P 20200402
• US 2020067717 W 20201231

Abstract (en)
[origin: US2021196000A1] A tightening device for tightening an article includes an elongate panel that is positionable about the article. The elongate panel has a proximal end and a distal end. A tensioning mechanism is coupled with the proximal end of the elongate panel. The tightening device also includes a tension member that is operably coupled with the tensioning mechanism so that an operation of the tensioning mechanism adjusts a tension of the tension member. The tightening device further includes at least one guide member that is coupled with the elongate panel between the proximal end and the distal end. The tension member is operable with the at least one guide member so that the tension member is routed about the article and along a portion of the elongate panel.

IPC 8 full level
A43B 5/04 (2006.01); **A43C 5/00** (2006.01); **A43C 7/00** (2006.01); **A43C 7/08** (2006.01); **A43C 11/00** (2006.01); **A43C 11/16** (2006.01)

CPC (source: EP KR US)
A43B 5/0427 (2013.01 - EP KR US); **A43C 1/06** (2013.01 - KR US); **A43C 5/00** (2013.01 - EP); **A43C 7/00** (2013.01 - EP);
A43C 7/08 (2013.01 - EP KR); **A43C 11/165** (2013.01 - EP KR)

Citation (search report)
• [XY] US 5177882 A 19930112 - BERGER CHRISTOPH [DE]
• [Y] WO 9014779 A1 19901213 - DASSLER PUMA SPORTSCHUH [DE]
• [A] FR 2783678 A1 20000331 - BIBOLLET JEAN CLAUDE [FR]
• See references of WO 2021138592A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
US 2021196000 A1 20210701; CN 114901097 A 20220812; EP 4084644 A1 20221109; EP 4084644 A4 20240117; JP 2023508936 A 20230306;
KR 20220117337 A 20220823; WO 2021138592 A1 20210708

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US 202017139670 A 20201231; CN 202080091500 A 20201231; EP 20908468 A 20201231; JP 2022538682 A 20201231;
KR 20227026413 A 20201231; US 2020067717 W 20201231