

Title (en)
SHOE WITH A CENTRAL ROTARY FASTENER.

Title (de)
SCHUH MIT EINEM ZENTRALDREHVERSCHLUSS.

Title (fr)
CHAUSSURE A FERMETURE ROTATIVE CENTRALE.

Publication
EP 0652720 A1 19950517 (DE)

Application
EP 94903727 A 19931226

Priority
• DE 9301258 W 19931226
• DE 9307480 U 19930528

Abstract (en)
[origin: US5463822A] A shoe with an upper made of resiliently flexible materials, a central rotary closure, an instep cover in an instep area of the upper, at least one tightening element connected to the central rotary closure, and guide elements at side parts of the upper. The at least one tightening element is guided from the instep cover laterally in the form of loops which are guided over a deflecting element of a respective one of the guide elements. The central rotary closure enables the tightening element to be shortened by rotating the central rotary closure to close the shoe and increasing of the free length of the tightening element to open the shoe. A first end portion of the pull strap is fastened to the shoe in an area at which a portion of a wearer's foot near the metatarsophalangeal joints is received and from there the pull strap is guided over a front one of the coupling elements to a deflecting element located in an area of the metatarsus, and from there, is guided over a more rearward coupling element rearwardly to an area at which the heel of the wearer's foot is received and at which a second end portion of the pull strap is fastened. Furthermore, each of the coupling elements is free to move relative to the shoe upper since they are carried only by a respective one of the loops of the at least one tightening element and by the pull strap.

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IPC 8 full level
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CPC (source: EP US)
A43C 11/00 (2013.01 - EP US); **A43C 11/14** (2013.01 - EP US); **A43C 11/165** (2013.01 - EP US)

Citation (search report)
See references of WO 9427460A1

Citation (examination)
• WO-A-91/08686
• DE-A- 4 024 782
• DE-U- 8 912 788
• DE-U- 9 005 496
• DE-U- 9 016 325

Cited by
US10334910B1; CN113729355A; US7065906B2; US7526881B2; US11026480B2; US11564451B2; US11963584B2

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US 5463822 A 19951107; AT E155657 T1 19970815; AU 5808094 A 19941220; CN 2207104 Y 19950913; DE 59306984 D1 19970828; DE 9307480 U1 19941006; EP 0652720 A1 19950517; EP 0652720 B1 19970723; JP 3432515 B2 20030804; JP H07509396 A 19951019; WO 9427460 A1 19941208

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US 24935694 A 19940527; AT 94903727 T 19931226; AU 5808094 A 19931226; CN 94212862 U 19940525; DE 59306984 T 19931226; DE 9301258 W 19931226; DE 9307480 U 19930528; EP 94903727 A 19931226; JP 50008095 A 19931226