

Title (en)
SHOE BUCKLE WITH ROTATING ELEMENT AND CAM OPERATION

Title (de)
SCHUHVERSCHLUSS MIT DREHGLIED UND EXZENTERTRIEB

Title (fr)
SYSTEME DE FERMETURE POUR CHAUSSURES, POURVU D'UN ELEMENT ROTATIF ET D'UN MECANISME A EXCENTRIQUE

Publication
EP 0724392 A1 19960807 (DE)

Application
EP 95925698 A 19950718

Priority
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• DE 9413360 U 19940820

Abstract (en)
[origin: US5638588A] A shoe closure mechanism having a rolling disk which lies on a bottom wall of a housing part, with the rolling disk being a flat, narrow ring whose inner face forms an inner gearing and whose outer face forms a rotatable guide path with the inner wall of a peripheral edge of the housing part. Furthermore, an eccentric driving disk lies on the bottom wall of the housing part within the rolling disk in the same plane with it. A cable pulley lies on the rolling disk and the eccentric driving disk, and it engages with drive pegs in circular openings of the eccentric driving disk and rotates on a section of an axle unit. The driving disk has a central hole which receives an eccentric driving peg that projects axially from the axle unit into a central opening of the driving disk. A bearing peg projects from the eccentric driving peg centrally with respect to the axis of rotation into a bearing hole of the housing part, and a driving projection projects from the axle unit, on the side opposite the eccentric driving peg and the bearing peg, into a hole of a rotating element that closes the top of the housing part. The driving projection is rigidly coupled with the rotating element. At least one opening that aligns with recesses of the rolling disk is provided in the housing part, and a fixing pin of a spring clip removably engages in the opening.

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IPC 8 full level
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US 5638588 A 19970617; AT E179053 T1 19990515; AU 2974895 A 19960314; AU 687221 B2 19980219; BR 9506324 A 19970805; CN 1092034 C 20021009; CN 1134102 A 19961023; DE 59505709 D1 19990527; DE 9413360 U1 19951221; EP 0724392 A1 19960807; EP 0724392 B1 19990421; JP H09504725 A 19970513; KR 100220290 B1 19990915; KR 960704476 A 19961009; MX 9601413 A 19980630; TW 306184 U 19970521; WO 9605748 A1 19960229; ZA 956323 B 19960314

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