

Title (en)

Athletic shoe with bendable traction projections.

Title (de)

Sportschuh mit biegsamen Dornen.

Title (fr)

Chaussure d'athlétisme à crampons flexibles.

Publication

EP 0363217 A2 19900411 (EN)

Application

EP 89310255 A 19891006

Priority

US 25483988 A 19881007

Abstract (en)

There is disclosed an athletic shoe having grooves in a ground engaging surface of a sole formed concentrically about a pivot point in the ball portion and having traction projections in the form of bristles or columns embedded in the bottom of the grooves. Free ends of the traction projections protrude from the ground engaging surface whereby forces on the free ends of the traction projections perpendicular to the grooves, as when a player is accelerating, causes the projections to bend against the side walls of the grooves which thus support the projections against further bending with the free ends of the projections protruding from the outsole to provide traction. Forces on the free ends of the projections tangentially to the grooves, as when a player pivots, cause the projections to bend into or lay down in the grooves and thus offer little or no traction. The ground engaging surface of the sole is formed of a material having a low coefficient of friction so that the sole can move or pivot relatively freely once the projections have bent into the grooves.

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A43B 13/26

IPC 8 full level

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CPC (source: EP)

A43B 3/0042 (2013.01); **A43B 13/26** (2013.01)

Cited by

US6035559A; GB2332136A; US6023860A; GB2332136B; US5926974A; US6018889A; EP0853896A3; US10165827B2; US6226896B1; WO2016081210A1; WO9713422A1; US6167641B1; US6305104B1

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