

Title (en)  
SPORTS SHOE

Publication  
**EP 0193024 B1 19890524 (DE)**

Application  
**EP 86101738 A 19860212**

Priority  
DE 3505665 A 19850219

Abstract (en)  
[origin: ES292060U] Athletic shoe sole with cleats having exchangeable grip elements that are snap-locked to a mounting stud. The grip element can easily be inserted and removed again, without impairment of shoe sole stability or danger of damage thereto, by the provision of interactive engagement formations, comprised of a minimum of one raised area 16, 17, 26 and a complementary recessed area 19, 28, that have at least one inclined surface that produces a relative axial shifting between the gripping element and mounting stud when the gripping element is rotated about its longitudinal axis. Preferably, the raised areas 16, 17, 26 are arranged such that, in the snap-locked condition, they do not have operative contact with the recessed areas 19, 28, but can be brought into operative contact by rotating grip element 11 around its longitudinal axis x, and thereafter the grip element 11 can be pressed out over the catch point of the snap-lock device or snap-lock devices 8, 12 to release the grip element from the mounting stud.

IPC 1-7  
**A43C 15/16**

IPC 8 full level  
**A43B 13/26** (2006.01); **A43C 15/02** (2006.01); **A43C 15/16** (2006.01)

CPC (source: EP KR US)  
**A43C 15/00** (2013.01 - KR); **A43C 15/161** (2013.01 - EP US)

Cited by  
WO2012027251A1; CN102421316A; DE20211809U1; CN103108564A; US11076659B2; US9623309B2; US9055786B2

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0193024 A1 19860903; EP 0193024 B1 19890524**; AT E43230 T1 19890615; AU 5370586 A 19860828; AU 573517 B2 19880609; BR 8600609 A 19861029; DE 3505665 A1 19860821; DE 3663443 D1 19890629; ES 292060 U 19860516; ES 292060 Y 19870201; JP S61191303 A 19860826; KR 860006232 A 19860909; US 4633600 A 19870106; ZA 86842 B 19861029

DOCDB simple family (application)  
**EP 86101738 A 19860212**; AT 86101738 T 19860212; AU 5370586 A 19860218; BR 8600609 A 19860213; DE 3505665 A 19850219; DE 3663443 T 19860212; ES 292060 U 19860131; JP 1488986 A 19860128; KR 860001145 A 19860219; US 83086186 A 19860219; ZA 86842 A 19860205