

Title (en)  
Ball-striking racket.

Title (de)  
Schläger für ein Ballspiel.

Title (fr)  
Raquette pour jeux de balle.

Publication  
**EP 0149106 A1 19850724 (DE)**

Application  
**EP 84114806 A 19841205**

Priority  
DE 3344329 A 19831208

Abstract (en)  
[origin: US4693475A] A racket for ball games and more specifically, a tennis racket, has a frame forming a racket head, a shank and a grip secured to the shank with a force fit so that the grip may be turned in relation to the racket head into different settings. The force fit connecting elements are simple to manufacture, yet permit an exact stepless setting and a satisfactory transmission of the forces produced while still avoiding a slip clutch effect. The grip and the racket shank are joined with each other by a surface area of substantial size which assures the required frictional engagement for the force fit in the angular direction while providing a form locking connection in the axial direction. The shank is part of an integral, one-piece handle bar which also has a cylindrical section and a conical section integrally interconnecting the shank to the cylindrical section.

Abstract (de)  
Die Erfindung betrifft einen Schläger für ein Ballspiel bzw. insbesondere einen Tennisschläger (1) mit einem aus Schlägerkopf (5) Schaft (4) und Griff (3) bestehenden Rahmen (2), dessen Griff (3) relativ zum Schlägerkopf (5) verstellbar ist. Um eine einfache Fertigung, eine exakte Einstellung und eine gute Übertragung der auftretenden Kräfte zu erzielen, sind der Griff (3) und der Schlägerkopf (5) bezüglich ihrer Winkelstellung kraftschlüssig miteinander verbunden.

IPC 1-7  
**A63B 49/08**

IPC 8 full level  
**A63B 49/08** (2006.01)

CPC (source: EP KR US)  
**A63B 49/08** (2013.01 - EP KR US); **A63B 60/16** (2015.10 - EP US); **A63B 60/32** (2015.10 - EP US)

Citation (search report)

- [X] US 4033583 A 19770705 - EHRHART WENDELL A
- [Y] BE 401557 A 19340331 - DELLA VOLPE GILBERTO [IT]
- [X] US 4101125 A 19780718 - HEATH GEORGE
- [X] DE 2458581 A1 19760616 - TWIEHOFF KARL HEINZ
- [X] DE 2458572 A1 19760616 - TWIEHOFF KARL HEINZ
- [X] US 3534960 A 19701020 - HANKS FLETCHER
- [A] CH 470891 A 19690415 - DINKHAUSER T ERNST [CH]

Cited by  
GB2328379A

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

DOCDB simple family (publication)  
**EP 0149106 A1 19850724; EP 0149106 B1 19880210**; AT E32434 T1 19880215; AU 3622084 A 19850613; AU 581195 B2 19890216; BR 8406280 A 19851001; CA 1247668 A 19881228; DE 3344329 A1 19850613; DE 3469274 D1 19880317; IN 161647 B 19880109; JP S60139265 A 19850724; KR 850004400 A 19850715; US 4693475 A 19870915; ZA 849292 B 19850731

DOCDB simple family (application)  
**EP 84114806 A 19841205**; AT 84114806 T 19841205; AU 3622084 A 19841203; BR 8406280 A 19841207; CA 469596 A 19841207; DE 3344329 A 19831208; DE 3469274 T 19841205; IN 906DE1984 A 19841128; JP 25905484 A 19841207; KR 840007740 A 19841207; US 77485485 A 19850910; ZA 849292 A 19841128