

Title (en)

TENNIS RACKET.

Title (de)

TENNISSCHLÄGER.

Title (fr)

RAQUETTE DE TENNIS.

Publication

**EP 0032506 A4 19820526 (FR)**

Application

**EP 80901593 A 19810209**

Priority

US 6105279 A 19790726

Abstract (en)

[origin: WO8100214A1] A tennis racket comprises dynamic weights (6) distributed symmetrically relative to the longitudinal axis of the racket between the throat and the transverse axis of the head and suspended by arcuate straps (7) glued to the racket frame (2), the weights being displaceable in a direction perpendicular to the plane of the stringed area (3). The combination of weights and straps is adapted for having an intrinsic vibration frequency about 1.4 to 2 times the fundamental vibration frequency of the racket, such that when the weights are vibrated at their intrinsic frequency (by a ball striking the racket), the vibration of the racket is damped by energy transfer to the weights, and yet energy is also returned to the racket as a reaction in the direction of the ball's flight before the ball leaves the racket. The angular stability of the racket is improved over either fixed weights or dynamic weights having frequencies outside the critical range.

IPC 1-7

**A63B 49/04**

IPC 8 full level

**A63B 49/04** (2006.01); **A63B 59/00** (2006.01)

CPC (source: EP)

**A63B 60/54** (2015.10)

Citation (search report)

- DE 2554267 A1 19770616 - KUEBLER & CO [DE]
- US 3907292 A 19750923 - MORELAND JAMES P

Cited by

US5599018A

Designated contracting state (EPC)

CH DE FR GB NL SE

DOCDB simple family (publication)

**WO 8100214 A1 19810205**; CA 1140608 A 19830201; DE 3067259 D1 19840503; EP 0032506 A1 19810729; EP 0032506 A4 19820526; EP 0032506 B1 19840328; IE 49957 B1 19860122; IE 801541 L 19810126; JP S56500955 A 19810716

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**US 8000943 W 19800723**; CA 357071 A 19800725; DE 3067259 T 19800723; EP 80901593 A 19810209; IE 154180 A 19800724; JP 50193180 A 19800723