

Title (en)  
Optimised thermoplastic racquet

Title (de)  
Optimierter thermoplastischer Schläger

Title (fr)  
Raquette thermoplastique optimisée

Publication  
**EP 2735346 B1 20160406 (EN)**

Application  
**EP 13193947 A 20131121**

Priority  
• US 201213686469 A 20121127  
• US 201213686486 A 20121127  
• US 201213686525 A 20121127  
• US 201213686542 A 20121127

Abstract (en)  
[origin: EP2735346A1] A sports racquet extends along an axis and is configured for use with a quantity of racquet string forming a string bed about a string plane. The racquet includes a frame formed of a thermoplastic material, and including first and second halves including first and second spaced apart hoop regions, and first and second handle regions, respectively. The hoop regions includes projections extending from hoop regions in a direction orthogonal to the string plane. At least one of the hoop regions defines a set of bores. The projections are configured to matably engage the bores. The projections extend through the string plane and define curved bearing surfaces configured for engaging and supporting the racquet string. The projections include first and second projections having first and second radii of curvature, respectively. The first radius of curvature being at least 0.5 mm greater than the second radius of curvature.

IPC 8 full level  
**A63B 49/02** (2006.01); **A63B 49/10** (2015.01)

CPC (source: EP US)  
**A63B 49/02** (2013.01 - EP US); **A63B 49/10** (2013.01 - EP); **A63B 49/03** (2015.10 - EP); **A63B 2049/0205** (2013.01 - EP US);  
**A63B 2049/103** (2013.01 - EP US)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2735346 A1 20140528; EP 2735346 B1 20160406**

DOCDB simple family (application)  
**EP 13193947 A 20131121**