

Title (en)  
ICE SKATE BLADE WITH PRE-APPLIED VARIABLE CURVATURE, VARIABLE STIFFNESS, AND MODULAR BOOT MOUNTING SYSTEM

Title (de)  
SCHLITTSCHUHKUFE MIT VOREINGESTELLTER VARIABLER KRÜMMUNG, VARIABLER STEIFHEIT UND MODULARES SCHUHBEFESTIGUNGSSYSTEM

Title (fr)  
LAME DE PATIN À GLACE À COURBURE VARIABLE PRÉ-APPLIQUÉE, RIGIDITÉ VARIABLE, ET SYSTÈME DE MONTAGE SUR CHAUSSURE MODULAIRE

Publication  
**EP 4003551 A4 20240410 (EN)**

Application  
**EP 20848446 A 20200730**

Priority  
• US 201962880203 P 20190730  
• US 2020044361 W 20200730

Abstract (en)  
[origin: WO2021022099A1] A skate blade has a tube (1) featuring a complex radiused slot (5) in which the runner (3) is placed, thereby imparting the complex radius to the runner (3). A uniform quick mounting structure is also provided, whereby a mounting cup (8) attached to the tube (1) is secured to a skate boot by interaction between a retention jib (11) and a mounting plate (10) that is located on the boot. This provides a uniform and repeatable attachment. Other features include harmonic dampening, adhesive retention features, boot alignment features.

IPC 8 full level  
**A63C 1/30** (2006.01); **A63C 1/06** (2006.01); **A63C 1/22** (2006.01); **A63C 1/32** (2006.01); **A63C 1/38** (2006.01); **A63C 1/42** (2006.01); **A63C 3/04** (2006.01)

CPC (source: EP US)  
**A63C 1/06** (2013.01 - EP); **A63C 1/22** (2013.01 - EP US); **A63C 1/30** (2013.01 - EP); **A63C 1/32** (2013.01 - EP US); **A63C 1/38** (2013.01 - EP US); **A63C 1/42** (2013.01 - EP US); **A63C 2203/42** (2013.01 - EP US)

Citation (search report)  
• [XAY] US 6086084 A 20000711 - WEMMENHOVE GEERT [NL]  
• [XAY] NL 1021122 C2 20040123 - BRAVER DAVID DEN [NL], et al  
• [YA] KR 960007140 U 19960313  
• See also references of WO 2021022099A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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**US 2020044361 W 20200730**; CN 202080069000 A 20200730; EP 20848446 A 20200730; KR 20227006201 A 20200730; US 202017631872 A 20200730