

Title (en)  
SWIMMING FLIPPERS

Title (de)  
SCHWIMMFLOSSE

Title (fr)  
PALME POUR LA NATATION

Publication  
**EP 0670744 B1 19980415 (DE)**

Application  
**EP 91915696 A 19910829**

Priority  
DE 9100683 W 19910829

Abstract (en)  
[origin: WO9304740A1] Described are flippers (1) for divers or swimmers, the flat flipper fore-part being formed by a foil section (7) round which the water can flow freely. The flipper fore-part always makes a positive angle to the direction of flow of the water resulting from the forwards motion of the swimmer and flipper movement, during both the upwards (II) and downwards (I) kick of the flipper. In order to increase the propulsive effect of the flippers, while at the same time giving the diver or swimmer greater freedom of movement, the foil section (7) is located behind the diver's or swimmer's foot (11) in the direction of swimming and, during both the upwards (II) and downwards (I) kick of the flipper, is always in the flow of water past the underside of the swimmer's foot (11).

IPC 1-7  
**A63B 31/11**

IPC 8 full level  
**A63B 31/11** (2006.01)

CPC (source: EP US)  
**A63B 31/11** (2013.01 - EP US)

Designated contracting state (EPC)  
DE IT

DOCDB simple family (publication)  
**WO 9304740 A1 19930318**; DE 4017461 A1 19911205; DE 4017461 C2 20020425; DE 59108968 D1 19980520; EP 0670744 A1 19950913; EP 0670744 B1 19980415; US 5460557 A 19951024

DOCDB simple family (application)  
**DE 9100683 W 19910829**; DE 4017461 A 19900530; DE 59108968 T 19910829; EP 91915696 A 19910829; US 19919294 A 19940426