

Title (en)  
WATERPROOF BREATHABLE SOLE

Title (de)  
WASSERDICHTER ATMUNGSAKTIVE SOHLE

Title (fr)  
SEMELLE PERMÉABLE À L'AIR ET IMPERMÉABLE À L'EAU

Publication  
**EP 2550887 A4 20140716 (EN)**

Application  
**EP 11758737 A 20110321**

Priority  
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• CN 2011000453 W 20110321

Abstract (en)  
[origin: EP2550887A1] The present invention provides a waterproof breathable sole, comprising: an outsole (10) provided with ventilation eyeholes (140) in communication with the outer environment; and a waterproof breathable element (40) comprising a waterproof breathable membrane (420) covering the ventilation eyeholes (140); the waterproof breathable element (40) further comprises a connecting ring (440); the connecting ring (440) is provided around a periphery of the waterproof breathable membrane (420) and engaged with the waterproof breathable membrane (420). The outsole (10) may be further provided with an inserting groove (102); the inserting groove (102) corresponds to a position of the ventilation eyeholes (140). The waterproof breathable element (40) is received and sealed in the inserting groove (102); or the top of the outsole (10) is flat, the waterproof breathable element (40) is engaged with and sealed to the outsole via the connecting ring (440). The waterproof breathable sole further comprises a forced-suction and forced-discharge element (60) correspondingly provided over the waterproof breathable element (40). The provision of the waterproof breathable element (40) with the connecting ring (440) simplifies the provision process of the prior art waterproof breathable membrane and improves the adaptability for the various types of soles; the provision of the forced-suction and forced-discharge element (60) greatly improves the air circulation.

IPC 8 full level  
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Citation (search report)  
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Designated contracting state (EPC)  
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