

Title (en)
Water barrier for footwear

Title (de)
Wassersperre für Schuhe

Title (fr)
Barrière imperméable pour chaussures

Publication
EP 2294936 A1 20110316 (EN)

Application
EP 10176462 A 20100913

Priority
US 55807209 A 20090911

Abstract (en)
A footwear construction including a barrier element that restricts the transfer of water into the footwear. The footwear can include an upper joined with a sole, with at least one of the upper and sole defining a channel that allows air to circulate to the upper. The barrier element can be located in the channel, and can include a phase change material that swells to close the channel when subjected to water. The barrier element can act as a valve to restrict the flow of water into the upper through the channel when subjected to water. The barrier element can be water absorbing polymer included in a non-woven sheet. When dry, the barrier element can allow air to pass through the channel and circulate to an interior of the upper. The barrier element can be wetted and dried repeatedly, yet still function to restrict water flow into the footwear.

IPC 8 full level
A43B 7/08 (2006.01); **A43B 7/12** (2006.01); **A43B 13/12** (2006.01)

CPC (source: EP US)
A43B 7/08 (2013.01 - EP US); **A43B 7/12** (2013.01 - EP US); **A43B 13/125** (2013.01 - EP US); **A43B 17/107** (2013.01 - EP US)

Citation (applicant)
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• US 5071681 A 19911210 - MANNING JAMES H [US], et al
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Citation (search report)
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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 SE SI SK SM TR

Designated extension state (EPC)
BA ME RS

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