

Title (en)  
SELF CLOSING FLOOD BARRIER AND METHOD FOR PROTECTING A HINTERLAND USING SAME

Title (de)  
SELBSTSCHLIESSENDE FLUTSPERRE UND VERFAHREN ZUM SCHUTZ EINES HINTERLANDS DURCH VERWENDUNG DERSELBEN

Title (fr)  
BARRIÈRE ANTI-INONDATION AUTO-FERMANTE ET PROCÉDÉ POUR PROTÉGER UN HINTERLAND À L'AIDE DE CELLE-CI

Publication  
**EP 2315880 A1 20110504 (EN)**

Application  
**EP 09746799 A 20090402**

Priority  
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• NL 1035415 A 20080513

Abstract (en)  
[origin: WO2009139622A1] The invention relates to a self closing flood barrier for protecting a hinterland against floods, wherein the flood barrier comprises a chamber comprising a first side wall (20) and a second side wall (21), a water inlet for letting in water, a single support block arranged on the first side wall (21), and a dam wall member up and down movably arranged in the chamber. The dam wall member comprises a retaining wall (4) for avoiding water to flow to the hinterland, a forcing element (4, 5a, 5b) for causing an upward movement of the dam wall member, and a blocking element (5b) for providing a blockade for limiting the upward movement, the blocking element comprising an inclined surface (16). The support block comprises an inclined surface (17) against which the inclined surface (16) of the blocking element (5b) acts in a closed state of the flood barrier. Due to the orientation of the angled wall of the support block, the blocking element is forced to move sideward and thereby a lateral force is created forcing the dam wall member to one side of the chamber.

IPC 8 full level  
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Citation (search report)  
See references of WO 2009139622A1

Citation (third parties)  
Third party :  
• FR 2846014 A1 20040423 - PGB 3M [FR]  
• GB 2369387 A 20020529 - PHILPOV IVAN [GB]  
• EP 2354326 A1 20110810 - TECHNE GRADO STUDIO ASSOCIATO DI INGEGNERIA GEOL [IT]  
• EP 0726364 A1 19960814 - DEN NOORT JOHANN HEINRICH REIN [NL]  
• "Report on Principles and operation of self-closing waterdams", ROBERT BIRD + PARTNERS INTERNATIONAL CONSULTING ENGINEERS, 22 September 2003 (2003-09-22), pages 1 - 35, XP003033401

Cited by  
WO2021259919A1; BE1028419A1

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