

Title (en)
HYDRODYNAMIC STABILISATION SYSTEM AGAINST COASTAL EROSION

Title (de)
HYDRODYNAMISCHES STABILISATIONSSYSTEM GEGEN KÜSTENEROSION

Title (fr)
SYSTEME DE STABILISATION HYDRODYNAMIQUE DESTINE A LUTTER CONTRE L'EROSION COTIERE

Publication
EP 1629155 A1 20060301 (EN)

Application
EP 04712606 A 20040219

Priority
• GB 2004000675 W 20040219
• GB 0304655 A 20030228

Abstract (en)
[origin: GB2398817A] A method of combatting coastal erosion comprises the installation of an aeration system into the swash zone of the beach to compensate for low sediment porosity in beach profiles composed of fine sand. This reduces the capillary effect within the beachface to improve the horizontal and vertical flow through the beachface to promote uprush sediment transport and entrapment. The aeration system comprises a number of spaced vertical filter membrane tubes 4 buried in the beach, interconnected by a pipework system 3 leading to a vertically mounted aeration pipe 1 located at the top of the beach. The system is a passive beach stabilisation system regulated by the natural hydraulic forces generated by waves and tides, promoting the conditions for creation of a balanced beach profile and sustainable equilibrium profile.

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IPC 8 full level
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