

Title (en)

A SYSTEM FOR PROTECTING HARBORS AGAINST SEDIMENTATION AND FOR NOURISHING SHORES

Title (de)

KÜSTENSCHUTZANLAGE GEGEN SEDIMENTATION UND KÜSTENERNÄHRUNGSANLAGE

Title (fr)

PROCEDE DE PROTECTION DES RIVAGES CONTRE LA SEDIMENTATION ET DE SOUTÈNEMENT DE CEUX-CI

Publication

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Application

EP 95928592 A 19950822

Priority

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- GR 9500014 W 19950822

Abstract (en)

[origin: WO9606230A1] The system for protecting harbors against sedimentation and for nourishing of shores consists of one or more seabed groins (6-8) or rectilinear, polygonal, or curvilinear trace and about elliptical cross section of 1/3 ratio between minor over major axis, each constructed by one-piece of impermeable by water geotextile material, of suitable width, ranging from 1m to 10m, and length, ranging from 20m to 400m, the said geotextile material being transformed by heat welding treatment into a watertight tube and then placed at fully immersed position at the site of application, suitably tensioned to receive the desired longitudinal shape and finally, filled in situ by a special mix of cast concrete that secures automatic advancement within the said watertight tube through gravity and hydrostatic forces, and filling of the entire tube, thus, upon hardening, providing the said with the design cross sections along all the length of the tube. Each application of the system to a port for protection of its basin against sedimentation, or shore for nourishment, is preceded by an oceanographic site investigation and a system design phase. The data to be collected refer to site seabed formation and material constitution, resultant current velocity field, and wave-wind climate. The said design involves analysis of the site investigation data and detail definition of the suitable system for the said site. In particular, the said design defines the number of seabed groins to be used, the shape and direction of each groin, and the total length and cross section geometry at steps of suitable length of each groin.

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