Title (en)
  TIX DREDGING METHOD

Title (de)
  TIX-BAGGERVERFAHREN

Title (fr)
  PROCÉDÉ D'EXCAVATION TIX

Publication
  EP 2683878 A1 20140115 (DE)

Application
  EP 12703693 A 20120201

Priority
  • EP 11153674 A 20110208
  • EP 2012000449 W 20120201
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Abstract (en)
  [origin: EP2484838A1] The method of removing sandy and/or silt deposits on a bottom surface of water using hydropneumatic methods such as water injection and suction dredging, comprises exposing the force reducing the viscosity of the deposit on the bottom surface before the application of hydropneumatic removal process, where the force acting on the deposit surface causes vibration and shear stress on the deposit, converting the treated deposit in a fluid density layer using a water-injection process, removing the deposit by a suction dredge method, and partially separating the removed material. The method of removing sandy and/or silt deposits on a bottom surface of water using hydropneumatic methods such as water injection and suction dredging, comprises exposing the force reducing the viscosity of the deposit on the bottom surface before the application of hydropneumatic removal process, where the force acting on the deposit surface causes vibration and shear stress on the deposit, converting the treated deposit in a fluid density layer using a water-injection process, removing the deposit by a suction dredge method, partially separating the removed material from the aspirated water, and recycling the separated water by suction hopper dredging. The sand/silt deposit exhibits thixotropic properties and a linear particle size distribution in the sand fraction, and comprises platelet-like particles. An independent claim is included for an apparatus for removing sandy/silty soil deposits on surfaces of water bodies.

IPC 8 full level
  E02F 3/92 (2006.01)

CPC (source: EP)
  E02F 3/9287 (2013.01)

Citation (search report)
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