

Title (en)

Method and assembly for producing vibration sand piles on the beds of water bodies

Title (de)

Verfahren und Anlage zum Herstellen von Rüttelstopfsäulen auf dem Grund von Gewässern

Title (fr)

Procédé et installation de réalisation de colonnes vibrées au niveau du sol d'étendues d'eau

Publication

EP 2258903 A1 20101208 (DE)

Application

EP 09007298 A 20090602

Priority

EP 09007298 A 20090602

Abstract (en)

The method involves utilizing sand by bed (15) of waters and separating the sand from its fine grain portion. The sand is blocked in vibration sand piles (28) in the bed of water. The sand is separated from organic impurities during a washing process, where transport of the sand hydraulically takes place after the separation process. A sand lifting device (16) is provided for lifting the sand from the bed of waters. A sluice compactor (26) is provided for manufacturing sluice stone columns. A sand sender (24) is provided for transporting the sand up to a location of a sheeting. An independent claim is also included for a system for manufacturing vibration sand piles on a bed of water in offshore areas.

Abstract (de)

Verfahren zum Herstellen von Rüttelstopfsäulen auf dem Grund von Gewässern, insbesondere in Offshore-Gebieten, wobei Sand vom Grund (15) des Gewässers verwendet wird, wobei der Sand von seinem Feinkornanteil getrennt wird, und wobei der behandelte Sand dann in Rüttelstopfsäulen (28) im Grund des Gewässers verbaut wird.

IPC 8 full level

E02D 3/10 (2006.01); **E02D 3/08** (2006.01); **E02D 15/10** (2006.01)

CPC (source: EP)

E02D 3/08 (2013.01); **E02D 3/10** (2013.01); **E02D 3/106** (2013.01); **E02D 15/10** (2013.01)

Citation (applicant)

- DE 2543320 A1 19770407 - VOGEL RUDOLF DR ING
- DE 10053427 A1 20020516 - DEGEN WILHELM [CH], et al

Citation (search report)

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- [Y] EP 0319070 A1 19890607 - GRINT & ZANDEXPL MIJ VH SMALS [NL]
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- [A] JP 2001303540 A 20011031 - PENTA OCEAN CONSTRUCTION, et al
- [A] JP S58178720 A 19831019 - NIHON KAIKOU KK
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