

Title (en)

Plant for separating light and heavy materials from a matter, particularly for separating foreign material from sand

Title (de)

Anlage zum Abscheiden und Trennen von leichteren und schwereren Fremdstoffen aus einem diese Stoffe enthaltenden Behandlungsgut, insbesondere zum Abscheiden von Fremdstoffen aus mit diesen belastetem Sand

Title (fr)

Installation pour séparer des matières légères et lourdes d'un matériau, notamment pour séparer des matières étrangères du sable

Publication

EP 0808659 A3 19990407 (DE)

Application

EP 97108072 A 19970517

Priority

- DE 19621273 A 19960525
- DE 19623027 A 19960608
- DE 19720248 A 19970515

Abstract (en)

[origin: EP0808659A2] A sand cleaning plant whose principal component is an upstream separator (10). This separator is a tank (20) with a double bottom (22, 23) into which water is passed so that it rises out of holes in the upper plate (22) to form a fluidised bed with the sand, which is then separated into light and heavy layers. The light fractions are withdrawn at a relatively higher level than the heavy fractions, which are removed by a screw conveyor (25). The separator is fed by screw conveyor (9), at the opposite side to conveyor (25). Material is moved along the bottom (22) to conveyor (25) by reciprocating bars (31), working at two levels. Tank (20) is to have a rectangular cross-section with the double bottom in a horizontal plane.

IPC 1-7

B03B 5/62; **B03B 11/00**

IPC 8 full level

B03B 5/62 (2006.01); **B03B 11/00** (2006.01)

CPC (source: EP)

B03B 5/623 (2013.01); **B03B 11/00** (2013.01)

Citation (search report)

- [XY] DE 4220598 A1 19921126 - BEYER HORST [DE]
- [XY] DE 3418492 A1 19851121 - KREYENBERG HEINER
- [X] DE 3336980 A1 19850418 - SLOMAN NEPTUN SCHIFFFAHRTS AG [DE]
- [A] DE 959811 C 19570314 - HARDINGE CO INC
- [AD] WO 9505230 A1 19950223 - NOGGERATH HOLDING GMBH CO KG [DE], et al
- [A] G. DRINKGERN ET AL.: "Konzepte moderner Sand- und Kiesaufbereitungsanlagen", AUFBEREITUNGS TECHNIK., vol. 34, no. 1, January 1993 (1993-01-01), WIESBADEN DE, pages 2 - 17, XP000350791

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