

Title (en)
Pile, in particular an anchor pile.

Title (de)
Pfahl, insbesondere Ankerpfahl.

Title (fr)
Pieu, en particulier pieu d'ancrage.

Publication
EP 0312198 A1 19890419 (EN)

Application
EP 88307661 A 19880818

Priority
GB 8719577 A 19870819

Abstract (en)
A pile having high resistance to dragging when utilised as an anchor for horizontal or near-horizontal leading. The pile has an elongated hollow body with a cross-sectional profile in the form of a closed figure which is asymmetric about at least one axis, and is preferably triangular, particularly an isosceles triangle whose equal angles are in the range 20 DEG - 45 DEG . The pile body is preferably constructed of plate material (6A, 8A, 6B, 8B, 6C, 8C, 10), with at least the lower end being open, for ease of driving into the supporting material (e.g. the sea-bed). A beam-like strengthening member (2) preferably extends across the interior of the pile body, for the full vertical length of the pile body, to strengthen the pile against bending when used for anchoring. A connecting member (20), such as an eger or hook, is located on the pile, preferably on one edge of the strengthening beam. In the preferred forms of pile, the vertical strengthening beam (2) forms the apex (16) of an isosceles triangle between its equal sides and with 35 DEG equal angles, and the connecting member (20) is on the apex (16) at about mid-length of the pile. Also described are heavy-duty marine anchoring systems employing the piles.

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IPC 8 full level
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CPC (source: EP)
B63B 21/26 (2013.01); **E02D 5/54** (2013.01); **E02D 5/80** (2013.01)

Citation (search report)
• DE 2405238 B2 19760212
• DE 806234 C 19510611 - DORTMUND HOERDER HUETTENVER A

Cited by
EP0411967A1; US9340944B2; NO20190693A1; NO345374B1; NO345713B1; EP3976459A4; EP4025491A4; WO2008024281A3; WO2013109186A1; WO2020246893A1; WO2021045626A1

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