

Title (en)
BACK-UP MOORING ARRANGMENT

Title (de)
STÜTZVERANKERUNGSANORDNUNG

Title (fr)
AGENCEMENT D'AMARRAGE DE SECOURS

Publication
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Application
EP 15801156 A 20151126

Priority
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Abstract (en)
[origin: WO2016083509A1] The invention concerns a system for mooring a first floating structure (2) to a second structure (1), for example an FAU to an FPSO. The system comprises a main positioning arrangement (4) for maintaining the first floating structure (2) at a predetermined distance (lc) from the second structure (1). The system further comprises an auxiliary positioning arrangement (3, 3a, 3b) or a back-up system for mooring the first floating structure (2) to an underlying seabed by for example an anchor. This auxiliary positioning arrangement is configured to establish, in case of malfunctioning of the main positioning arrangement, a resultant force (Fres) acting on the first floating structure (2), which force has a magnitude and direction that ensures maintenance of a minimum distance (lmin) between the first floating structure (2) and the second structure (1). The resultant force is the total force acting on the first floating structure and involves for example a surge added mass, a damping force, a horizontal force component from the auxiliary positioning arrangement and a total force from the main positioning arrangement.

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Citation (search report)
See references of WO 2016083509A1

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