

Title (en)  
BOTTOM-SURFACE CONNECTING INSTALLATION OF THE MULTI-RISER HYBRID TOWER TYPE, COMPRISING SLIDING BUOYANCY MODULES

Title (de)  
MEERESGRUND-OBERFLÄCHEN-VERBINDUNGSINSTALLATION DER MEHRFACHSTEIGROHRHYBRIDTURMART MIT GLEITENDEN AUFTRIEBSMODULEN

Title (fr)  
INSTALLATION DE LIAISON FOND-SURFACE DE TYPE TOUR HYBRIDE MULTI-RISER COMPRENANT DES MODULES DE FLOTTABILITE COULISSANTS

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Application  
**EP 10706303 A 20100114**

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Abstract (en)  
[origin: WO2010097528A1] The present invention relates to a bottom-surface connecting installation (1) for connecting a plurality of sub-sea pipes (2- 1,2-2) resting on the sea bottom (12) to a floating support (10) on the surface (13), of the multi-riser hybrid tower type, comprising: 1) a tower (3) comprising : a) a vertical tendon (4), and b) a plurality of vertical rigid pipes (3- 1,3-2), c) a plurality of guide means (22) for guiding said risers, and d) buoyancy elements (21) collaborating with said tendon and 2) a plurality of flexible connecting pipes (6- 1,6-2) characterized in that the said tower (3) comprises a plurality of buoyancy and guide modules (20,20- 1,20-n) constituting a plurality of independent structures able to slide along the said tendon and along the said risers, the said structure (20) supporting the said buoyancy elements (21) and guiding the said risers into a position preferably uniformly and symmetrically distributed about the said tendon.

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