

Title (en)  
A LONGITUDINAL STRUCTURE FOR AN OFFSHORE WIND TURBINE

Title (de)  
LÄNGSSTRUKTUR FÜR EINE WINDKRAFTANLAGE AUF SEE

Title (fr)  
STRUCTURE LONGITUDINALE POUR TURBINE ÉOLIENNE EN HAUTE MER

Publication  
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Application  
**EP 20708429 A 20200225**

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Abstract (en)  
[origin: WO2020177825A1] A longitudinal structure (10), e.g. a monopile, for an offshore wind turbine (9) is disclosed. The longitudinal structure (10) comprises an outer wall enclosing a hollow interior (5), the outer wall comprising a first region (17) in which the outer wall is solid and a second region (1) in which the outer wall is provided with a plurality of passages (4) allowing fluid to pass to and from the hollow interior (5) of the longitudinal structure (10). The passages (4) have a non-circular elliptic shape with the major axis arranged substantially along a longitudinal direction (6) of the longitudinal structure (10). The passages (4) are arranged relative to each other in such a manner that a plurality of first passage-free areas (7) and a plurality of second passage-free areas (8) are formed on the outer wall of the second region (1), where each of the first passage-free areas (7) extends along a direction being parallel to the longitudinal direction (6) of the longitudinal structure (10), and each of the second passage-free areas (8) extends along a direction forming an angle with the longitudinal direction (6) of the longitudinal structure (10), said angle being within range of 30° to 60°.

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