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(54) Title: METHOD FOR APPLYING A COATING TO AN EXTERNAL SURFACE OF A MAN-MADE OBJECT TO BE AT LEAST PARTLY IMMERSSED IN WATER

(57) Abstract: The disclosure relates to a method of applying a coating to an external surface of a man-made object to be at least partly immersed in water (e.g. a vessel or an offshore drilling station) for a time period wherein there is relative movement between the immersed object and the water. The applied coating has a minimal resistance rating for a set of coatings. The method comprises a computer-implemented coating selection process, which comprises a first steps of obtaining, for each coating in the set of coatings, a total roughness value of the external surface based on a fouling roughness value, a macro roughness value and a micro roughness value associated with each coating. The coating selection process comprises in a second step selecting a coating from the set of coatings, wherein the selected coating has a minimal resistance rating associated with the obtained total roughness value for the time period. The method further comprises applying the selected coating to the external surface of the man-made object.



WO 2017/064016 A1