

Title (en)

COMBINED FRP HULL STRUCTURE OF MULTI-HULL TYPE SHIP

Title (de)

KOMBINierter RUMPFaufbau aus GLAServerstärktem KUNSTstoff für MEHRRumpf-Schiffe

Title (fr)

STRUCTURE COMBINEE DE COQUE EN PLASTIQUE RENFORCE PAR DES FIBRES DE VERRE POUR BATEAUX MULTICOQUE

Publication

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Application

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Priority

KR 9300082 W 19930909

Abstract (en)

[origin: WO9507211A1] A combined hull structure of a multi-hull type ship hving a laminated single skin structure and a sandwich structure. The hull strcuture comprises at least two hulls and a wet deck extending between the hulls. Each of the hulls has the laminated single skin structure which is prepared by lamination of a plurality of laminated FRP panels, each prepared using a fiber mat laden with an isophthalic type resin. The wet deck has a sandwich structure, prepared by bonding the same laminated FRP panel to each of upper and lower surfaces of a PVC foam substrate having a predetermined thickness. The fiber mat of the laminated FRP panel is selected from an aramid fiber mat and a glass fiber mat. The bonding of the laminated FRP panels of the sandwich structure of the wet deck to the upper and lower surfaces of the PVC foam substrate is achieved by a vacuum bagging, using an unsaturated acrylate resin as a bonding agent applied to interfaces between the laminated FRP panels and the upper and lower surfaces of the PVC foam substrate. This combined hull structure achieves a desired strength and a desired high speed of the ship.

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IPC 8 main group level

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