

Title (en)

A TRIGGERING MECHANISM FOR DISCONNECTING A RISER FROM A RISER CONNECTOR

Title (de)

AUSLÖSEMECHANISMUS ZUM TRENNEN EINES STEIGROHRS VON EINEM STEIGROHRVERBINDER

Title (fr)

MECANISME DE DECLENCHEMENT PERMETTANT DE DECONNECTER UNE COLONNE MONTANTE D'UN RACCORD DE COLONNE MONTANTE

Publication

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Application

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Abstract (en)

[origin: WO03064809A1] The invention relates to a triggering mechanism for a triggering valve (1) of a hydraulic emergency unlock circuit for unlocking hydraulically operated gripping members of a riser connector which connects a lower end of a riser (2) to a wellhead on a sea floor. The triggering mechanism comprises a cam ring (5) secured to a displaceable part (4) of a flex joint for the riser (2), and an actuator ring (8) which by means of hydraulic cylinders are translatable movable towards a stationary part (3) of the flex joint. An angular displacement ( $\alpha$ ) of the riser (2) causes an angular displacement ( $\alpha$ ) of the cam ring (5), which contacts the actuator ring (8) and forces the actuator ring (8) towards the stationary part (3) of the flex joint, causing an activating of a trigger (13) for the triggering valve (1).

[origin: WO03064809A1] The invention relates to a triggering mechanism for a triggering valve 1 of a hydraulic emergency unlock circuit for unlocking hydraulically operated gripping members of a riser connector which connects a lower end of a riser 2 to a wellhead on a sea floor. The triggering mechanism comprises a cam ring 5 secured to a displaceable part 4 of a flex joint for the riser 2, and an actuator ring 8 which by means of hydraulic cylinders are translatable movable towards a stationary part 3 of the flex joint. An angular displacement  $\alpha$  of the riser 2 causes an angular displacement  $\alpha$  of the cam ring 5, which contacts the actuator ring 8 and forces the actuator ring 8 towards the stationary part 3 of the flex joint, causing an activating of a trigger 13 for the triggering valve 1.

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