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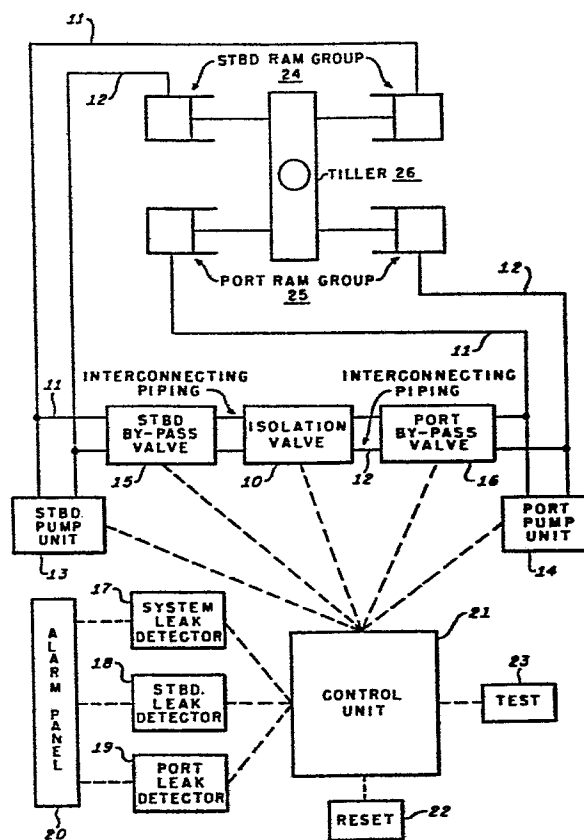
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54 **Device for isolating one circuit in a double hydraulic circuit for ship-steering systems.**

57 Apparatus for automatically or remotely dividing a two pump unit hydraulic steering system, upon detection of dangerous loss of fluid, into two independent steering systems in order to maintain steering capacity utilises an isolation valve (10) for blocking interconnecting piping (11, 12) in conjunction with by-pass valves (15, 16) for relieving resistance by one ram group (24) to motion of another (25). The valves (15, 16) and the pump units (13, 14) are regulated automatically or remotely by a control unit (21) in response to detection of fluid loss to achieve steering by the ram group on the loss-free side.





European Patent
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EUROPEAN SEARCH REPORT

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Application number

EP 83 30 1881

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
X	EP-A-0 021 732 (VICKERS LTD.) * Page 4, line 6 - page 5, line 2; page 5, lines 27-30; page 6, line 17 - page 10, line 12; figures 1,2 * -----	1-11	B 63 H 25/12
			TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
			B 63 H
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 31-08-1983	Examiner VOLLERING J.P.G.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	