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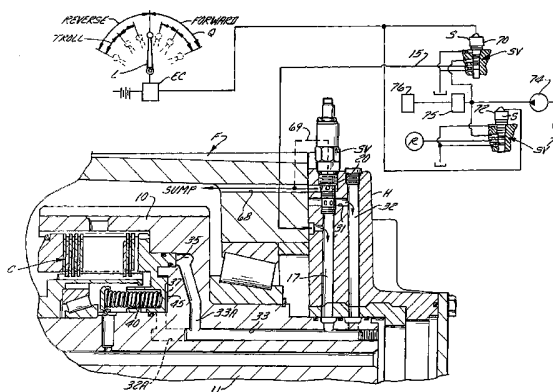
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ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: MODULATABLE POWER TRANSMISSION CLUTCH AND A MARINE TRANSMISSION



(57) Abstract: A transmission housing (H) having a modifiable power transmission therein which includes a clutch (C) having interleaved clutch plates and having a central power transmitting shaft (11) extending axially through the clutch. The clutch includes a fluid operated movable piston (9) for effecting clutch operation by compression of the plates. The piston has a smaller piston area (35) and a larger piston area (37), the smaller piston area has fluid flow directed to it a variable fluid pressure whereby the clutch is modifiable. The larger piston area is adapted to have fluid flow directed thereto to effect maximum and unmodifiable engagement of the clutch. A spring loaded normally closed trigger valve (SV) controls fluid flow to the larger piston area in response to fluid pressure above a predetermined amount at the smaller piston area. The trigger valve is mounted on the outside of the transmission housing and is readily accessible for adjustment, for example. The trigger valve is normally closed so that pressure fluid is directed to the smaller piston area at a variable fluid pressure whereby the clutch is modifiable. When the valve is open by fluid pressure over a predetermined amount, the valve permits fluid flow to the larger piston area to effect maximum and unmodifiable engagement of the clutch for full clutch capacity.

INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B63H 23/30; F16D 25/10

US CL : 192/51, 52.4, 85AA, 87.13, 109F; 440/75

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 192/51, 52.4, 85AA, 87.13, 109F; 440/75

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EAST search terms: clutch, modulation, valve, access, housing, exterior

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4,186,829 A (SCHNEIDER et al.) 05 February 1980 (05.02.1980), Figures 1 and 2, and column 5, line 7 to column 6, line 12.	1-4
Y	US 5,199,317 A (MOORE et al.) 06 April 1993 (06.04.1993) column 2, lines 13-16 and column 13, lines 37-41.	1-4
P, A	US 6,443,286 B1 (BRATEL et al.) 03 September 2002 (03.09.2002).	1-4



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See patent family annex.

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