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(54) Title: TRANSFER CASE WITH STATIONARY LOW RANGE PLANETARY

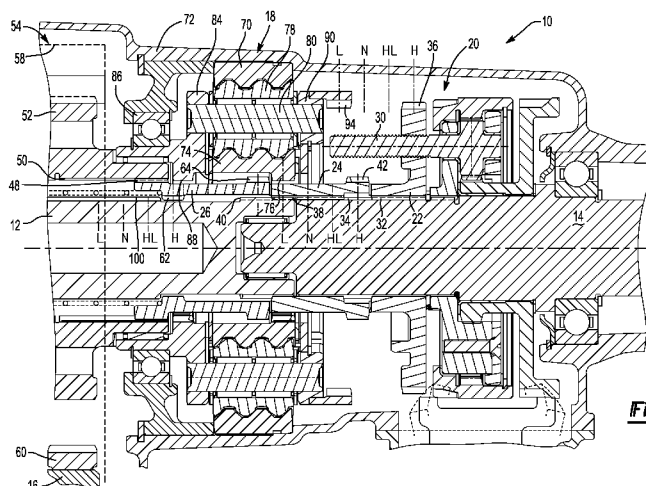


Fig-1

(57) Abstract: A transfer case (10) includes an input shaft (12), first and second output shafts (14, 16) and a planetary gearset (18) having a sun gear (74), a ring gear (70), a carrier (84, 90) and a pinion gear (78) meshingly engaged with the sun and ring gears. A range actuator (20) includes first, second and third range sleeves (22, 24, 26) abutted in series being axially translatable between a first position (H) to provide a drive connection between the input shaft (12) and the first output shaft (14), a second position (HL) providing a direct drive ratio connection between the input shaft (12) and the first output shaft (14) as well as the input shaft (12) and a second output shaft (16), and a third position (L) to provide a reduced speed drive ratio connection between the input shaft (12) and the first output shaft (14) as well as the input shaft (12) and the second output shaft (16). The gears of the planetary gearset (18) are not driven when the range sleeves are at the first and second positions.



INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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ADD.

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)
B60K

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)

EP0-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 916 051 A (SCHLEUDER CARL D [US] ET AL) 29 June 1999 (1999-06-29) column 3, line 17 - column 5, line 7 figures 1,2,4,7A,8A,9A -----	1-22
A	US 5 711 740 A (BAKOWSKI RICHARD A [US]) 27 January 1998 (1998-01-27) column 3, line 8 - column 5, line 46 figures -----	1-22
A	US 5 363 938 A (WILSON ROBERT J [US] ET AL) 15 November 1994 (1994-11-15) column 3, line 58 - column 6, line 56 figures 1-4 -----	1-22

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5916051	A	29-06-1999	NONE	

US 5711740	A	27-01-1998	NONE	

US 5363938	A	15-11-1994	NONE	
