

Title (en)
DUAL INPUT TRANSMISSION

Title (de)
GETRIEBE MIT ZWEI EINGÄNGEN

Title (fr)
TRANSMISSION A DOUBLE ENTREE

Publication
EP 1283962 A1 20030219 (EN)

Application
EP 00936245 A 20000524

Priority
US 0014244 W 20000524

Abstract (en)
[origin: WO0190600A1] A multi-speed transmission assembly including a gear box (58) portion having first (30B) and second (40B) inputs and an output (12); the first input (30B) is connectable to a pump portion (10A) of the torque converter (10), whereas the second input (40B) is selectively connectable to an impeller portion (10B) of said torque converter (10) such that separate torque converter and direct drive paths are established from a prime mover (11) to the transmission output (12). Clutches (46) are used to selectively couple the first (30B) and second (40B) inputs with their associated driving elements. The gear box (58) includes two countershafts (26, 52) having their axes arranged to be parallel and spaced apart from each other and parallel and spaced from an axis of an output shaft (12). The axes are arranged in a triangular relationship which enables a "straight through" version, a "short drop" version and a "long drop" version of the transmission to be easily manufactured using a commonality of components. By providing different input gear ratios for the first and second inputs, the torque converter can be used as an "energy absorber" under certain vehicle operating conditions, by simultaneously actuating clutches associated with the first and second inputs to produce relative rotational speeds in the impeller and pump portions of the torque converter.

IPC 1-7
F16H 47/06; F16H 3/00

IPC 8 full level
F16H 3/00 (2006.01); **F16H 3/093** (2006.01); **F16H 3/097** (2006.01); **F16H 47/06** (2006.01)

CPC (source: EP)
F16H 3/006 (2013.01); **F16H 3/093** (2013.01); **F16H 3/097** (2013.01); **F16H 47/06** (2013.01); **F16H 2003/0818** (2013.01); **F16H 2200/0043** (2013.01); **F16H 2200/0047** (2013.01); **F16H 2200/0052** (2013.01); **F16H 2200/006** (2013.01); **F16H 2200/0091** (2013.01)

Citation (search report)
See references of WO 0190600A1

Designated contracting state (EPC)
BE DE GB IT SE

DOCDB simple family (publication)
WO 0190600 A1 20011129; AU 5159000 A 20011203; BR 0017233 A 20040831; EP 1283962 A1 20030219

DOCDB simple family (application)
US 0014244 W 20000524; AU 5159000 A 20000524; BR 0017233 A 20000524; EP 00936245 A 20000524