

US 20070235277A1

## (19) United States (12) Patent Application Publication (10) Pub. No.: US 2007/0235277 A1

### Heuler et al.

### Oct. 11, 2007 (43) **Pub. Date:**

### (54) FLUID-FILLED CLUTCH ARRANGEMENT

Michael Heuler, Wurzburg (DE); (75) Inventors: Jurgen Dacho, Bad Kissingen (DE)

> Correspondence Address: COHEN, PONTANI, LIEBERMAN & PAVANE 551 FIFTH AVENUE, SUITE 1210 NEW YORK, NY 10176

- ZF Friedrichshafen AG (73) Assignee:
- Appl. No.: 11/732,990 (21)
- Apr. 5, 2007 (22)Filed:

#### (30)**Foreign Application Priority Data**

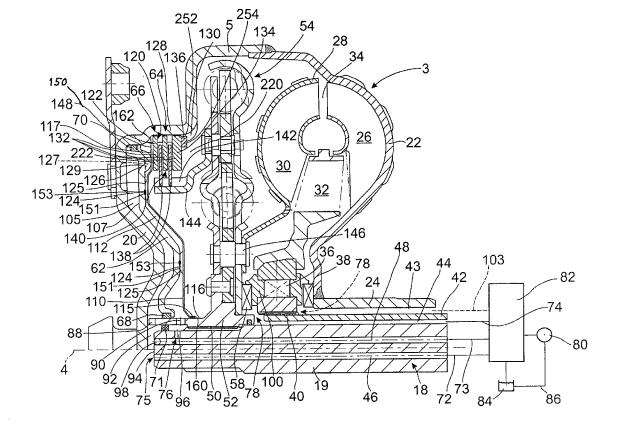
(DE) ..... 10 2006 016 417.2 Apr. 7, 2006 Feb. 7, 2007 (DE) ..... 10 2007 005 999.1

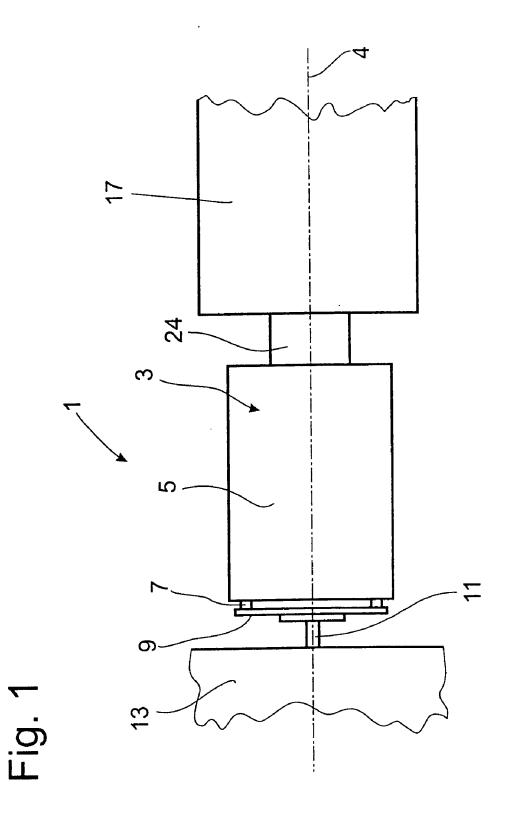
### **Publication Classification**

- (51) Int. Cl. F16H 45/02 (2006.01)
- U.S. Cl. ..... 192/3.3 (52)

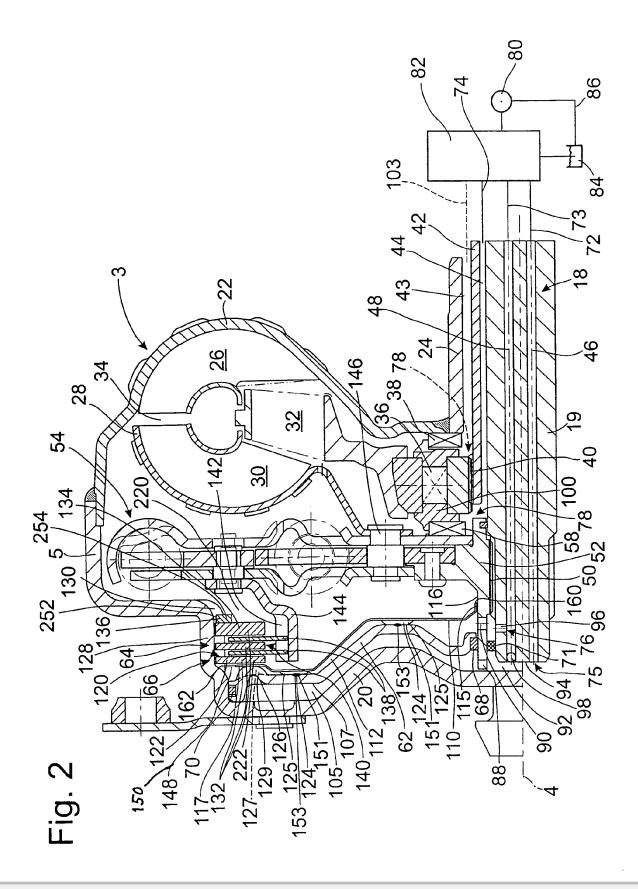
### ABSTRACT (57)

A fluid-filled clutch arrangement includes a housing; a piston mounted with freedom of axial movement in the housing, the piston being sealed against the housing, the piston having a drive side bounding a drive side pressure space from a takeoff side bounding a takeoff side pressure space; a clutch which can establish and release a working connection between a drive and a takeoff as a function of the position of the piston relative to the clutch; and a partition wall bounding the takeoff side pressure space opposite the piston, the partition wall being active between the takeoff side pressure space and a cooling space. At least one supply line connects a fluid supply source to at least one of the drive-side pressure space, the takeoff side pressure space, and the cooling space.

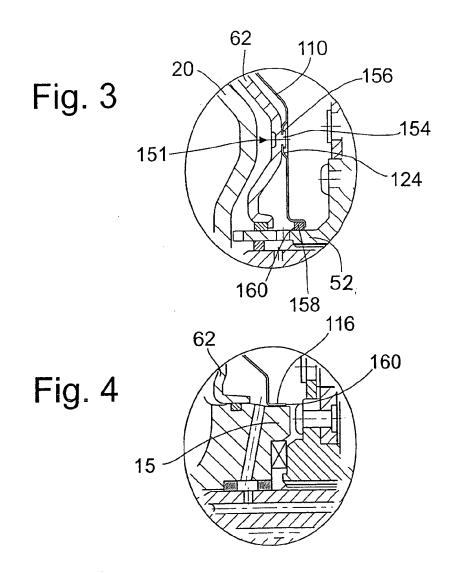


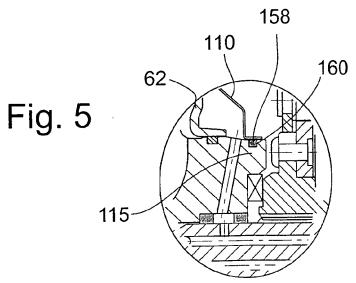


D Α **R** M A Find authenticated court documents without watermarks at <u>docketalarm.com</u>.

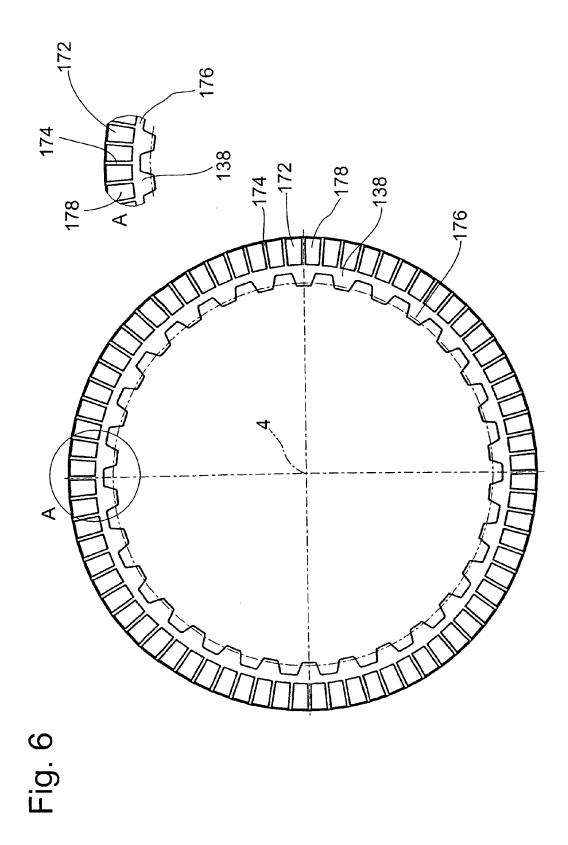


### ) Α R М Find authenticated court documents without watermarks at docketalarm.com.





**DOCKET A L A R M** Find authenticated court documents without watermarks at <u>docketalarm.com</u>.



DOCKET RM Α Find authenticated court documents without watermarks at <u>docketalarm.com</u>.

Α

## DOCKET A L A R M



# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## **Real-Time Litigation Alerts**



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## **Advanced Docket Research**



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## **Analytics At Your Fingertips**



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

### LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

### FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

### E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.