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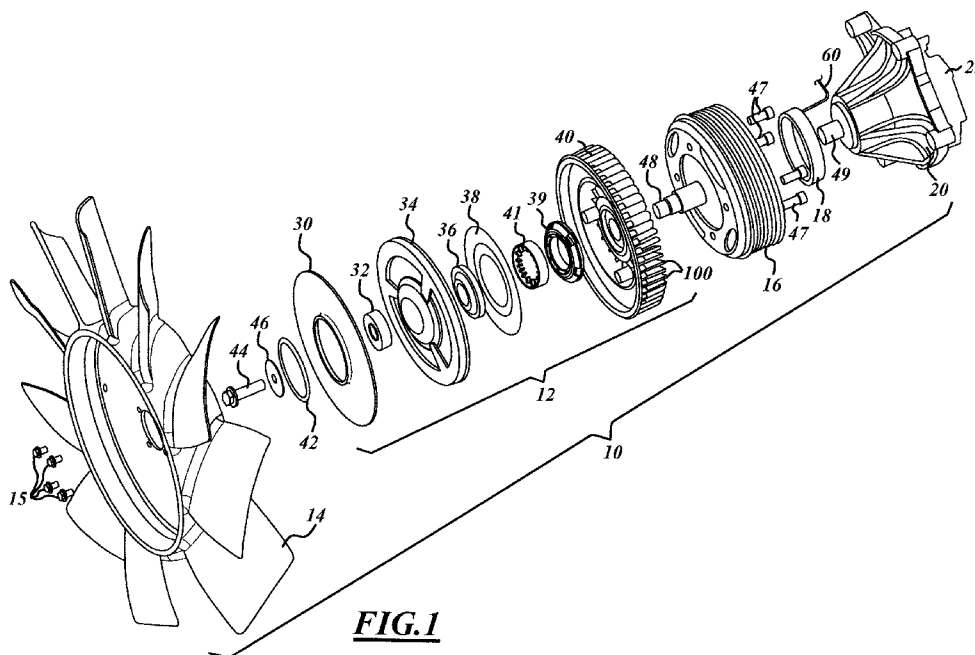


FIG. 1

(57) Abstract: A viscous fan drive with a front-mounted fan and electrical actuation without a tethered harness. The mechanical package includes an inverted viscous clutch, a drive pulley and a split electromagnetic actuator with the electrical portion mounted to a stationary mounting member. An axially moveable valve member controls the flow of viscous fluid.

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A. CLASSIFICATION OF SUBJECT MATTER*F16D 35/02(2006.01)i, F01P 7/02(2006.01)i*

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)

IPC 8 F16D

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

Korean Utility models and applications for Utility models since 1975

Japanese Utility models and applications for Utility models since 1975

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

e-KIPASS (KIPO internal) & key words : "fan" and "cooling" and "clutch"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,021,747 A (GEE et al.) 8 Feb. 2000 See Column 3, Line 42 - Column 6, Line 45; Fig 1, 2, 6 and 7.	1-22
A	US 3,968,866 A (LEICHLITER et al.) 13 Jul. 1976 See the abstract and Fig 1.	1-22
A	US 6,129,193 A (LINK) 10 Oct. 2000 See the abstract and Fig 3.	1-22
A	US 4,320,723 A (WENDLING et al.) 23 Mar. 1982 See the abstract and Fig 2.	1-22

 Further documents are listed in the continuation of Box C. See patent family annex.

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