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[Continued on next page]

(54) **Title:** BRAKING SYSTEM WITH LINEAR ACTUATOR

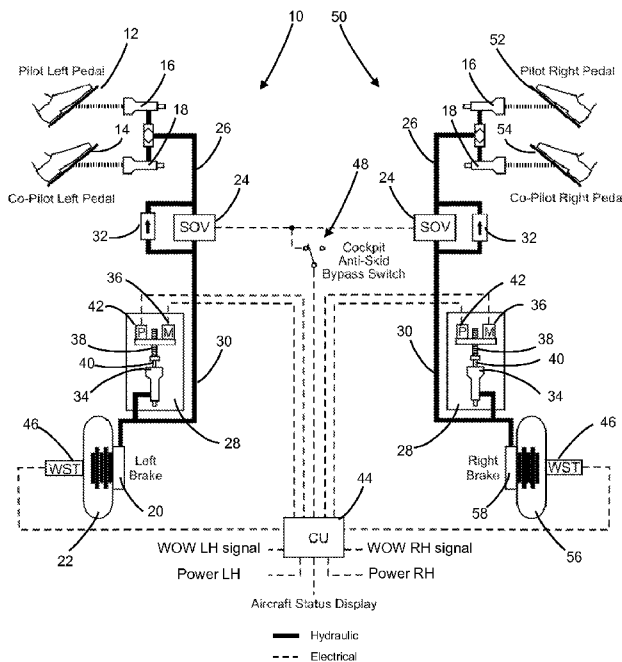


FIG. 1

(57) **Abstract:** Various brake control systems and methods are provided herein. In one implementation, a brake pressure control system having a shutoff valve (24) in a hydraulic conduit (26, 30) between a pressure origination source (16, 18) and a wheel brake (20), the shutoff valve selectively isolates the pressure origination source from the brake responsive to an indication that a wheel associated with the brake meets a skid condition, and an actuator assembly (28) comprising an actuator (34) that regulates fluid brake pressure after the shutoff valve isolates the pressure origination source from the brake. The actuator assembly operates independently of the shutoff valve and is coupled to the hydraulic conduit between the shutoff valve and the brake. The actuator assembly also effects displacement of the actuator for increasing and decreasing brake pressure. A controller (44) determines if the skid condition has been reached and controls the shutoff valve and the actuator assembly based upon the skid condition.

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ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR),
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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 : B64C25/42, B60T8/42, B60T8/02, B60T13/66, B60T13/74

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)

eKOMPASS(KIPO internal) & keywords : brake, skid, valve

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4685748 A (MELVIN C. ZOERB) 11 AUGUST 1987 See column 5, line 36 - column 6, line 39 and figures 4-6.	1, 9, 12
A	US 4640475 A (MELVIN C. ZOERB) 3 FEBRUARY 1987 See column 7, line 3 - column 8, line 32 and figure 2.	1, 9, 12
A	US 6193326 B1 (FRANCK YBERT) 27 FEBRUARY 2001 See column 3, line 61 - column 4, line 48 and figure 1.	22, 43
A	US 5417477 A (THIERRY LASBLEIS) 23 MAY 1995 See column 4, line 48 - column 5, line 68 and figure 1.	22, 43

 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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