

Title (en)
HYDRAULIC BRAKING SYSTEM FOR MOTOR VEHICLES

Title (de)
HYDRAULISCHE KRAFTFAHRZEUGBREMSANLAGE

Title (fr)
SYSTEME HYDRAULIQUE DE FREINAGE DE VEHICULES A MOTEUR

Publication
EP 0719223 A1 19960703 (DE)

Application
EP 95926922 A 19950718

Priority
• DE 4427799 A 19940805
• EP 9502809 W 19950718

Abstract (en)
[origin: DE4427799A1] In order to reduce the space occupied by a hydraulic braking system for motor vehicles with brake pressure modulation by means of adjustable vane pumps, all required vane pumps (10, 11, 12, 13) are driven through a common shaft by an electric motor (21) with a stabilised speed of rotation. In order to individually control each vane pump (10, 11, 12, 13), a cam ring (39) is associated to each vane pump (10, 11, 12, 13) and each cam ring (39) is driven by a proportional magnet (16, 17, 18, 19).

IPC 1-7
B60T 8/44; B60T 8/40; B60T 8/26; B60T 8/24; B60T 7/12; B60T 13/18; F04C 11/00

IPC 8 full level
B60T 8/34 (2006.01); **B60T 8/1766** (2006.01); **B60T 8/24** (2006.01); **B60T 8/26** (2006.01); **B60T 8/40** (2006.01); **B60T 8/44** (2006.01); **B60T 8/48** (2006.01); **B60T 13/16** (2006.01); **F04C 11/00** (2006.01); **F04C 14/22** (2006.01)

CPC (source: EP US)
B60T 8/266 (2013.01 - EP US); **B60T 8/4031** (2013.01 - EP US); **B60T 8/4059** (2013.01 - EP US); **B60T 8/4063** (2013.01 - EP US); **B60T 8/447** (2013.01 - EP US); **B60T 8/4827** (2013.01 - EP US); **B60T 13/16** (2013.01 - EP US); **F04C 11/001** (2013.01 - EP US); **F04C 14/22** (2013.01 - EP US); **Y10S 188/02** (2013.01 - EP)

Citation (search report)
See references of WO 9604159A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
DE 4427799 A1 19960208; EP 0719223 A1 19960703; JP H09503980 A 19970422; US 5725287 A 19980310; WO 9604159 A1 19960215

DOCDB simple family (application)
DE 4427799 A 19940805; EP 9502809 W 19950718; EP 95926922 A 19950718; JP 50612996 A 19950718; US 62439796 A 19960618