

Title (en)

SEALING CUP FOR HYDRAULIC PISTON CYLINDER DEVICE

Publication

EP 0000516 B1 19811028 (EN)

Application

EP 78100391 A 19780713

Priority

JP 8538577 A 19770715

Abstract (en)

[origin: JPS5420261A] PURPOSE:Piston cups which drop sliding resistance to a cylinder or a piston, improve boosting efficiency of oil pressure in the cylinder, facilitate stable piston operation and improve the life.

IPC 1-7

F16J 15/32

IPC 8 full level

B60T 11/16 (2006.01); **B60T 11/236** (2006.01); **F16J 9/20** (2006.01); **F16J 15/32** (2016.01); **F16J 15/3236** (2016.01)

CPC (source: EP US)

F16J 15/324 (2013.01 - EP US)

Cited by

EP2165897A1; US4781024A; DE102011018782A1; FR2485145A1; DE19505012A1; DE19802463B4; GB2254663A; GB2254663B; US8347623B2; US8646269B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0000516 A1 19790207; **EP 0000516 B1 19811028**; DE 2861260 D1 19820107; JP S5420261 A 19790215; JP S5854307 B2 19831203; US 4345771 A 19820824

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EP 78100391 A 19780713; DE 2861260 T 19780713; JP 8538577 A 19770715; US 21345480 A 19801205