

Title (en)
OIL RETURNING STRUCTURE

Title (de)
ÖLRÜCKFÜHRUNGSSTRUKTUR

Title (fr)
STRUCTURE DE RETOUR D'HUILE

Publication
EP 3095752 A1 20161123 (EN)

Application
EP 15730039 A 20150417

Priority
• CN 201511278517 A 20150323
• CN 2015076874 W 20150417

Abstract (en)
An oil return mechanism includes a base, a control switch, a first blocking ball mounted in the base, an elastic member mounted between the first blocking ball and the base. The base has a liquid storing cavity, a liquid returning cavity, a communicating cavity, a first communicating opening communicating between the liquid returning cavity and the communicating cavity, and a second communicating opening communicating between the communicating cavity and the liquid storing cavity. The control switch is adapted for controlling the second communicating opening open or closed so that the communicating cavity and the liquid storing cavity are connected or separated. The first blocking ball moves between a blocking position and an open position. The first communicating opening is positioned in a communicating portion of the base. When the first blocking ball is in the blocking position, one or more liquid guiding gaps are formed between the first blocking ball and an inner wall of the communicating portion of the base. The liquid guiding gap communicates between the liquid returning cavity and the communicating cavity. The present invention can regulate a speed of a fluid flowing from the liquid returning cavity to the communicating cavity, and has the advantages of simple structure and great reduction of cost.

IPC 8 full level
B66F 3/25 (2006.01); **F15B 15/14** (2006.01); **F15B 15/20** (2006.01); **F15B 15/22** (2006.01); **F15B 20/00** (2006.01); **B66F 3/42** (2006.01)

CPC (source: EP)
B66F 3/25 (2013.01); **F15B 15/202** (2013.01); **F15B 15/22** (2013.01); **F15B 20/00** (2013.01); **B66F 3/42** (2013.01); **F15B 15/1428** (2013.01); **F15B 15/149** (2013.01); **F15B 2211/75** (2013.01); **F15B 2211/761** (2013.01)

Cited by
EP4169851A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3095752 A1 20161123; **EP 3095752 A4 20170222**; **EP 3095752 B1 20210217**; HU E054569 T2 20210928; PL 3095752 T3 20210816

DOCDB simple family (application)
EP 15730039 A 20150417; HU E15730039 A 20150417; PL 15730039 T 20150417