

Title (en)

COMBINATION CONSISTING OF A MAIN UNIT AND OF AT LEAST ONE EXTERNAL-MOUNTED FUNCTIONAL UNIT

Title (de)

KOMBINATION AUS EINER HAUPT EINHEIT UND WENIGSTENS EINER ANBAU FUNKTIONSEINHEIT

Title (fr)

COMBINAISON D'UNE UNITE PRINCIPALE ET D'AU MOINS UNE UNITE FONCTIONNELLE SURAJOUTEE

Publication

EP 1129276 A1 20010905 (DE)

Application

EP 00960523 A 20000825

Priority

- DE 29915384 U 19990902
- EP 0008295 W 20000825

Abstract (en)

[origin: WO0118362A1] The invention relates to a combination (1) consisting of a main unit (2), preferably the engine block of an internal combustion engine, and of at least one external-mounted functional unit (3), preferably an oil or fuel filter, a heat exchanger or an oil mist separator, which can be mounted on the main unit (2) that conveys at least one fluid or one gas, and through which the fluid or the gas flows. The main unit (2) and the external-mounted functional unit (3) each comprise matching elements (21, 31) of a flanged joint which, when mounting the external-mounted functional unit (3), fit together in a sealed manner while forming at least one fluid or gas supply channel and one fluid or gas return channel. The inventive combination is characterized in that the elements (21, 31) of the flanged joint are formed by at least two parallel interspaced line sockets (31) and by two congruently positioned line borings (21), and in that the flanged joint, in its joined state that is effected by interconnecting, additionally comprises at least one radial seal (33) arranged between the line socket (31) and the associated line boring (21).

IPC 1-7

F01M 1/10; **F01M 11/03**

IPC 8 full level

F01M 1/10 (2006.01); **B01D 29/21** (2006.01); **B01D 35/147** (2006.01); **B01D 35/153** (2006.01); **F01M 11/03** (2006.01); **F01M 11/08** (2006.01); **F01P 11/08** (2006.01); **F02F 11/00** (2006.01); **F02M 37/00** (2006.01); **F02M 37/22** (2006.01)

CPC (source: EP KR)

B01D 29/21 (2013.01 - EP); **B01D 35/147** (2013.01 - EP); **B01D 35/153** (2013.01 - EP); **B01D 35/16** (2013.01 - EP); **B01D 35/18** (2013.01 - EP); **B01D 35/30** (2013.01 - EP); **F01M 11/03** (2013.01 - EP KR); **B01D 2201/305** (2013.01 - EP); **B01D 2201/34** (2013.01 - EP); **B01D 2201/4023** (2013.01 - EP); **F01M 2011/033** (2013.01 - EP)

Citation (search report)

See references of WO 0118362A1

Designated contracting state (EPC)

DE ES FR GB IT SE

DOCDB simple family (publication)

DE 29915384 U1 20010118; BR 0007052 A 20010731; EP 1129276 A1 20010905; JP 2003508676 A 20030304; KR 20010090810 A 20011019; WO 0118362 A1 20010315

DOCDB simple family (application)

DE 29915384 U 19990902; BR 0007052 A 20000825; EP 0008295 W 20000825; EP 00960523 A 20000825; JP 2001521876 A 20000825; KR 20017005517 A 20010502