Title (en)

Scroll vacuum pump

Title (de)

Spiralvakuumpumpe

Title (fr)

Pompe à vide à spirales

Publication

EP 1626178 B1 20071010 (EN)

Application

EP 04018870 A 20040809

Priority

EP 04018870 A 20040809

Abstract (en)

[origin: EP1626178A1] A scroll vacuum pump has an orbiting scroll (5) and fixed scrolls (3c,4c). The orbiting scroll (5) is rotatably mounted to an eccentric portion (8a) of a driving shaft (8) and revolved by the driving shaft, so that a gas is sucked into a compression chamber (2) between the orbiting scroll and fixed scrolls through a sucking bore (1a). External air is introduced through a ventilating hole (21) axially formed in the driving shaft (8) and into the compression chamber (2) via a check valve (25) that opens by centrifugal force when the driving shaft rotates, thereby cooling the eccentric portion (8a) and bearings to increase durability thereof. When the driving shaft (8) stops, the check valve (25) closes, so that a toxic gas in the compression chamber is not leaked to the outside to prevent environmental pollution.

IPC 8 full level

F04C 18/02 (2006.01); F04C 29/04 (2006.01)

CPC (source: EP)

F04C 29/04 (2013.01); F04C 2220/50 (2013.01)

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