

Title (en)

ONE-WAY VALVE AND SCROLL COMPRESSOR

Title (de)

EINWEGVENTIL UND SPIRALVERDICHTER

Title (fr)

VALVE DE RETENUE ET COMPRESSEUR À SPIRALE

Publication

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Application

EP 19859796 A 20190809

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Abstract (en)

A one-way valve (200) and scroll compressor, wherein the one-way valve (200) comprises: a valve seat (210) in which a valve hole (216) for fluid to pass through is formed; a valve plate (220) provided above the valve seat (210) and configured to selectively open or close the valve hole (216); a valve stop (230) provided above the valve plate (220) and fixedly connected to the valve seat (210), the valve stop (230) comprising a stop portion (234) for limiting the maximum displacement range of the valve plate (220) and a guide portion (236) used for guiding the valve plate (220) to move; and a flow guide member (240) configured to guide the fluid flowing through the one-way valve (200), thereby controlling the force applied by the fluid to the valve plate (220). According to the one-way valve (200), the flow guide member (240) is utilized to control the flow direction of the fluid, thereby reducing the working noise and shutdown noise of the scroll compressor, and improving the efficiency and working reliability of the scroll compressor.

IPC 8 full level

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CPC (source: EP KR)

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