

Title (en)
ONE-WAY VALVE AND SCROLL COMPRESSOR

Title (de)
EINWEGVENTIL UND SPIRALVERDICHTER

Title (fr)
VALVE DE RETENUE ET COMPRESSEUR À SPIRALE

Publication
EP 3851675 A4 20220615 (EN)

Application
EP 19859796 A 20190809

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Abstract (en)
[origin: EP3851675A1] 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.

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F04C 29/126 (2013.01 - EP)

Citation (search report)
• [X] US 9194395 B2 20151124 - GINIES PIERRE [FR], et al
• [X] EP 0844398 A1 19980527 - COPELAND CORP [US]
• [X] CN 104061155 A 20140924 - HITACHI APPLIANCES INC
• [XI] US 2013136642 A1 20130530 - GINIES PIERRE [FR], et al
• [X] US 2008101972 A1 20080501 - TARNG GUANG-DER [TW], et al
• See also references of WO 2020052390A1

Designated contracting state (EPC)
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WO 2020052390 A1 20200319

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