

Title (en)

Shape of suction hole and discharge hole of refrigerant compressor

Title (de)

Formen der Ein- und Auslasslöcher eines Kühlverdichters

Title (fr)

Forme des passages d'aspiration et de refoulement pour compresseur de réfrigération

Publication

**EP 0926345 A2 19990630 (EN)**

Application

**EP 98124026 A 19981217**

Priority

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Abstract (en)

Discharge holes and suction holes having shapes that suppress the turbulence of a refrigerant gas flow is disclosed. The shape of the discharge hole according to the present invention has a tapered surface wall, such that the circumference of the discharge hole increases from the piston cylinder surface to the discharge chamber surface. Similarly, the shape of the suction hole according to the present invention has a tapered surface wall such that the circumference of the suction hole increases from the suction chamber surface to the piston cylinder surface. The present invention allows the flow path of the refrigerant gas to flow approximately tangential to the valve reed by providing a tapered surface wall. The flow resistance of the discharge hole or the suction hole is reduced such that the volume efficiency of the compressor is improved and compressor noise is suppressed. <IMAGE>

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IPC 8 full level

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