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**Toyama et al.**

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(54) **COMPRESSOR WITH OIL SEPARATOR AND REFRIGERATION DEVICE INCLUDING THE SAME**

USPC ..... 62/470  
See application file for complete search history.

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(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 982 days.

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(57) **ABSTRACT**

(51) **Int. Cl.**  
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A compressor includes a casing configured to store lubricating oil in a bottom part, and a compression mechanism accommodated in an interior of the casing. Lubricating oil is separated out from high-pressure refrigerant discharged from the compression mechanism. Lubricating oil separated out by the oil separator flows from a high-pressure space formed in the interior of the casing and into which the high-pressure refrigerant flows. An ejector mechanism is disposed in the interior of the casing, preferably in the high-pressure space. The ejector mechanism includes a refrigerant-accelerating flow path in which the high-pressure refrigerant flows via a narrowed part in order to increase a flow rate of the high-pressure refrigerant, and an oil suction flow path merging with the refrigerant-accelerating flow path.

(52) **U.S. Cl.**  
CPC ..... **F04C 18/0215** (2013.01); **F04B 39/023** (2013.01); **F04B 39/04** (2013.01); **F04C 23/008** (2013.01); **F04C 29/026** (2013.01); **F04C 29/028** (2013.01); **F04C 29/12** (2013.01)

(58) **Field of Classification Search**  
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