

Title (en)
MECHANISM FOR CONTROLLING AND OPERATING COMPRESSOR CAPACITY AND AIR CONDITIONER HAVING THE SAME

Title (de)
MECHANISMUS ZUR STEUERUNG UND EINSTELLUNG DER VERDICHTERLEISTUNG UND KLIMAANLAGE DAMIT

Title (fr)
MÉCANISME POUR COMMANDER ET FAIRE FONCTIONNER UNE CAPACITÉ DE COMPRESSEUR ET CLIMATISEUR AYANT CELUI-CI

Publication
EP 2143952 A4 20150617 (EN)

Application
EP 08722683 A 20080324

Priority

- JP 2008055367 W 20080324
- JP 2007085368 A 20070328

Abstract (en)
[origin: EP2143952A1] This invention provides a compressor capacity control operation mechanism and an air conditioner provided with this mechanism, whereby cost increases are prevented and the capacity of the compressor can be controlled in the same manner as in a case of using two two-way valves. A compressor capacity control operation circuit (35) includes a pilot valve (90) for use as a four-way switching valve having four connecting capillary tubes (93a to 93d), a suction branching pipe (87), an intermediate pipe (88), and a discharge branching pipe (89). The suction branching pipe (87) is connected to a first capillary tube (93a) as one of the four connecting capillary tubes, and is a pipe branching off from a suction pipe (28) of a compressor (22) and having a larger diameter than the first capillary tube (93a). The intermediate pipe (88) is connected to a second capillary tube (93b) as one of the four connecting capillary tubes, and is a pipe connected to a cylinder intermediate part (79) of the compressor (22) and having a larger diameter than the second capillary tube (93b). The discharge branching pipe (89) is connected to a third capillary tube (93c) as one of the four connecting capillary tubes, and is a pipe branching off from a discharge pipe (30) of the compressor (22) and having a larger diameter than the third capillary tube (93c).

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Citation (search report)

- [A] US 2006093504 A1 20060504 - KIM CHEOL-HWAN [KR], et al
- See references of WO 2008123171A1

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