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(57) Abstract :

The present disclosure relates to an apparatus (100) for reusing air, the apparatus includes a blower unit (104) configured in the apparatus to circulate air, a vortex tube (102) configured to receive air from the blower unit (104) to produce hot air and cold air, a first end of the vortex tube (102) coupled to a pipe (122) of a compressor (116) to compress the received air from the blower unit, wherein, the cold air produced from the vortex tube (102) is delivered to indoor space through a first outlet (118) of the vortex tube; and thermoelectric cells (110) in a generator (106) coupled to a second outlet (120) of the vortex tube, wherein the hot air produced from the vortex tube (102) is delivered to the thermoelectric cells (110) to generate electricity.

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