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(74) Agents: **FOX, David, A.** et al.; Cantor Colburn LLP, 20
Church Street, 22nd Flr., Hartford, CT 06103 (US).

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(71) Applicant (for all designated States except US): **CARRIER CORPORATION** [US/US]; One Carrier Place,
Farmington, CT 06034-4015 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LIFSON, Alexander** [US/US]; c/o Carrier Corporation, One Carrier Place,
Farmington, CT 06034-4015 (US). **SRINIVASAN, Sriam** [US/US]; c/o Carrier Corporation, One Carrier Place,
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(54) Title: DEDICATED PULSING VALVE FOR COMPRESSOR CYLINDER

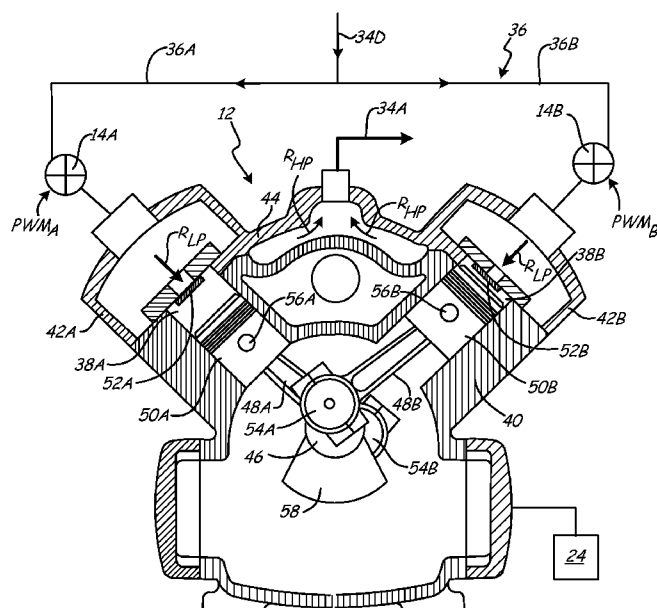


Fig. 2

(57) Abstract: A reciprocating piston compressor for use
in a refrigerant compression circuit comprises first and
second intake manifolds, first and second reciprocating
piston compression units, an outlet manifold and a first
pulsing valve. The intake manifolds segregate inlet flow
into the compressor. The first and second reciprocating
piston compression units receive flow from the first and
second intake manifolds, respectively. The outlet mani-
fold collects and distributes compressed refrigerant from
the compression units. The first pulsing valve is mounted
externally of the first intake manifold to regulate refrigerant
flow into the first intake manifold. In another embod-
iment, a second valve is mounted externally of the second
intake manifold to regulate flow into the second intake
manifold, and the first and second valves are operated by
a controller. The controller activates the first valve with
variable width pulses having intervals less than an operat-
ing inertia of the refrigerant compression circuit.



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