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Abstract

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58,041

A B S T R A C T

AIR CONDITIONING AND REFRIGERATION SYSTEM AND METHOD
UTILIZING A CRYOGEN

5 Air conditioning and refrigeration methods and
apparatus for controlling the temperature of a condi-
tioned space to a predetermined temperature band adjacent
to a predetermined set point temperature via cooling and
heating cycles utilizing a supply of pressurized cryogen.
A fluid flow path for the cryogen includes a heat ex-
changer associated with the conditioned space. A cryogen
heater is connected in the active cryogen flow path
during a heating cycle, and cryogen is directed through
10 the heater and heat exchanger via at least two successive
serial passes, utilizing the elevated pressure energy of
the cryogen as the motive force.

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