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(71) Applicant *(for all designated States except US)*: **AIR PRODUCTS AND CHEMICALS, INC.** [US/US]; 7201 Hamilton Boulevard, Allentown, PA 18195-1501 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **PETROWSKI, Joseph, Michael** [US/US]; 3461 Pross Hill Road, Pottstown, PA 19464 (US). **ROBERTS, Mark, Julian** [US/US]; 8866 Canaris Drive, Kempton, PA 19529 (US).

(74) Agent: **JONES, Willard, II**; Air Products and Chemicals, Inc., 7201 Hamilton Boulevard, Allentown, PA 18195-1501 (US).

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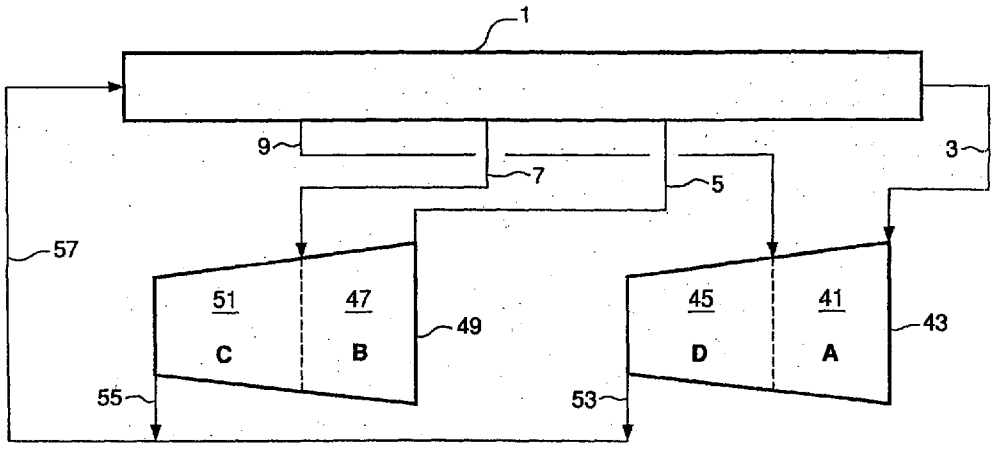
(54) Title: COMPRESSION SYSTEM WITH MULTIPLE INLET STREAMS



(57) Abstract: A compressor system comprises (a) a first compressor (43) having a first stage (41) and a second stage (45) wherein the first stage (41) compresses a first gas (3) and the second stage (45) compresses a combination of a fourth gas (9) and an intermediate compressed gas from the first stage (43); and (b) a second compressor (49) having a first stage (47) and a second stage (51) wherein the first stage (47) compresses a second gas (5) and the second stage (51) compresses a combination of a third gas (7) and an intermediate compressed gas from the first stage (47); and (c) piping means (57) to combine the discharge (53) from the second stage og the first compressor and the discharge (55) from the second stage of the second compressor to provide a compressed gas. The second gas (5) is at a pressure higher than the first gas (5), the third gas (7) is at a pressure higher than the second gas (5), and the fourth gas (9) is at a pressure higher than the third gas (7). The system has particular application to multistage refrigeration, especially of LNG.

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