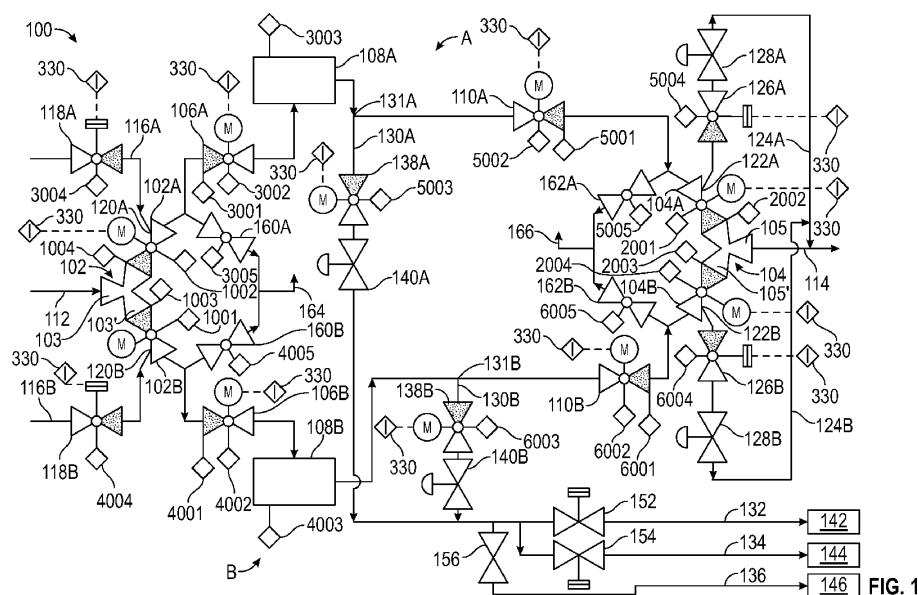




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- (71) Applicant: **MOGAS INDUSTRIES, INC.** [US/US];
14330 E. Hardy Street, Houston, TX 77039 (US).
- (72) Inventor: **BARRETT, Hugh, Wesley**; 3814 Sapling Trail
Ct., Spring, TX 77388 (US).
- (74) Agent: **LUNDEEN, Daniel**; Lundeen & Lundeen PLLC,
710 Harrison Avenue, Leadville, CO 80461 (US).
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(54) Title: SEVERE SERVICE REDUNDANT PATHWAY SYSTEM AND METHOD



(57) Abstract: Severe service redundant-pathway system and method. The system allows one train to be maintained in hot standby mode while the other train is maintained in steady state mode receiving a process stream, all while supplying purge media to primary and secondary isolation valves. The standby train can be quickly placed in steady state service. Moreover, the newly isolated train can be automatically purged of process media and returned to hot standby mode. Subsequently, the newly isolated train can be cooled down, flushed and drained in a way that inhibits or prevents process media from fouling the isolation valves. Then, the redundant equipment item (e.g., control valve) can be double-isolated upstream and downstream for service, e.g., repair/ replacement. Finally, the isolated leg can be heated using the purge media circulation system and placed in standby mode, ready to quickly receive the process stream, thereby avoiding process shutdown.

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