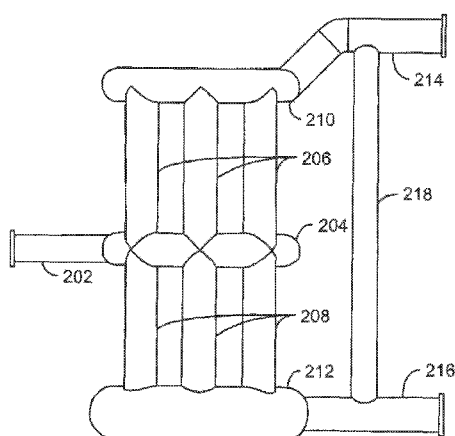




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(54) Title: MULTIPHASE SEPARATION SYSTEM



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FIG. 3

(57) Abstract: A system and method for separation of liquids and gases within a multiphase fluid are provided herein. The method includes flowing a multiphase fluid into a number of divisions within a multiphase separation system, wherein the divisions are configured to lower a velocity of the multiphase fluid. The method also includes separating the multiphase fluid among a number of lower pipes and a number of upper pipes, wherein each lower pipe includes an expansion zone configured to lower a pressure within the lower pipe to allow entrained liquids to drain from a corresponding upper pipe via a downcomer.

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