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(54) Title: SEQUENCING OF VARIABLE SPEED COMPRESSORS IN A CHILLED LIQUID COOLING SYSTEM FOR IMPROVED ENERGY EFFICIENCY

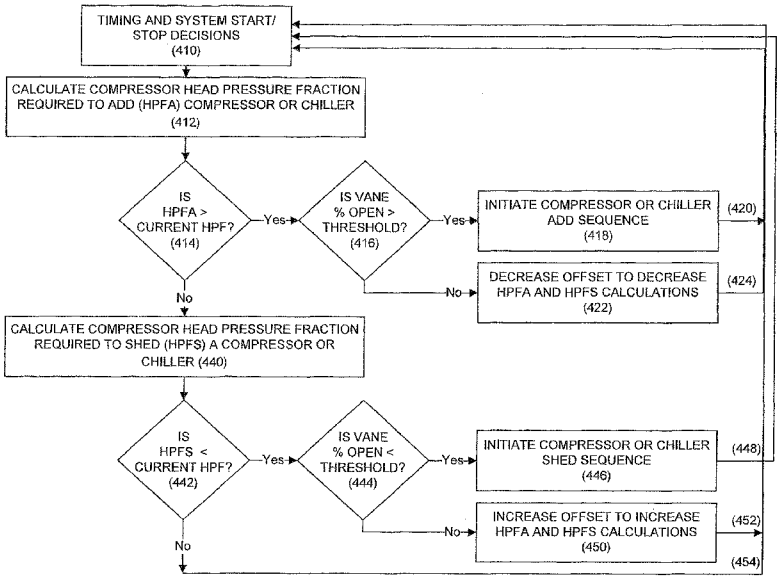


FIG. 4

(57) Abstract: An improved method for sequencing variable speed centrifugal compressors on and off line to ensure optimal operating efficiency in a liquid cooling system under all operating circumstances is described. The present disclosure teaches modifying equipment sequencing decisions (to add or shed a unit), based in part on the position of the compressor inlet vanes. This new approach achieves improved energy efficiency of the overall system by taking into account operating conditions of individual compressors or chillers that may be sub-optimal.