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(54) **Title:** ENHANCED HEAT RECOVERY IN PARAXYLENE PLANT

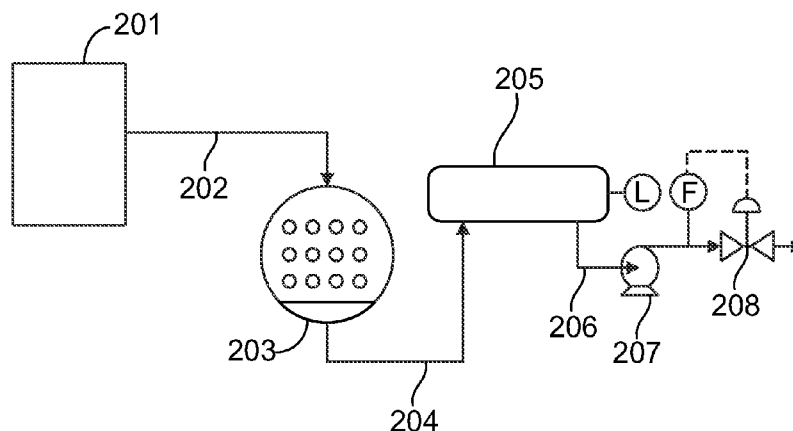


FIG. 2

(57) **Abstract:** Processes and apparatuses for enhanced heat recovery in a paraxylene manufacturing plant use a side condenser to recover high quality heat. By placing the side condenser below the location of a feed stream comprising low molecular weight gases, the heat recovered is free of such non-condensable gases. Such gases are undesirable when using the condensed vapor in other applications.