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(71) Applicant (for all designated States except US): **KEMEX LTD.**; 1000, 734 - 7th Avenue S.W., Calgary, Alberta T2P 3P8 (CA).

## (72) Inventor; and

(75) Inventor/Applicant (for US only): **JAMES, Kenneth** [CA/CA]; 243137 Range road 31, Calgary, Alberta T3Z 3L7 (CA).(74) Agent: **HUGHES, Neil H.**; Heenan Blaikie LLP, Bay Adelaide Centre, P. O. Box 2900, 333 Bay Street, Suite 2900, Toronto, Ontario M5H 2T4 (CA).

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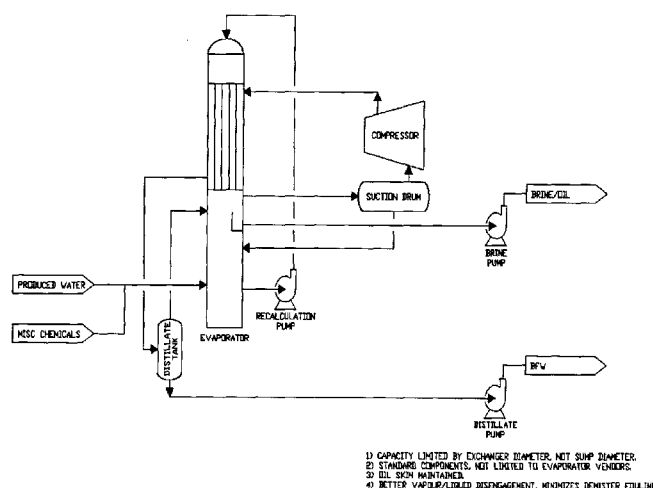
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- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
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## (54) Title: COMPACT EVAPORATOR FOR MODULAR PORTABLE SAGD PROCESS



(57) Abstract: A modular portable evaporator system for use in a Steam Assisted Gravity Drainage (SAGD) systems having an evaporator, with a sump comprising an oil skimming weir, a short tube vertical heat exchanger including an outer shell containing the short tubes provided for lower water circulation rate. A system further having, external to the evaporator, a compressor compressing evaporated steam from the tube-side of the heat exchanger and routing to the shell side of the same exchanger, a distillate tank to collect hot distilled water, a recirculation pump to introduce liquids from the sump into the heat exchanger and an external demister protecting the compressor from liquid impurities. The evaporator system receives produced water from the process into the sump and provides cleaned hot water to the boiler.

