

ABSTRACT

The invention relates to a regenerative adsorption process for application in an adsorption assembly comprising a condenser, an evaporator and a plurality of reactors each alternately operating in adsorption and desorption modes, said process comprising:

- 5 passing a coolant through the condenser;
- passing the coolant emanating from the condenser through reactors operating in adsorption mode; and
- passing waste heat from a waste heat source through reactors operating in desorption mode; wherein said plurality of reactors are scheduled such that each reactor alternately
- 10 operates in adsorption and desorption modes for substantially identical time intervals, and such that each reactor has an equal chance of being the first reactor to receive the coolant emanating from the condenser when operating in adsorption mode, and the waste heat from the waste heat source when operating in desorption mode.

The invention also relates to a multi-reactor regenerative adsorption chiller assembly

15 comprising:

- a condenser adapted to receive a coolant from a source;
- an evaporator connected to said condenser to provide a refrigerant circuit;
- a plurality of reactors, each being able to operate in adsorption and desorption modes and having a coolant inlet to directly or indirectly receive coolant emitted from said condensor.

(Figure 1 is to be published)

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