

ABSTRACT**Capture system of carbon dioxide from a gas containing carbon dioxide**

The present invention relates to a capture system (1) of carbon dioxide, comprising a first heat exchanger (4a) and a second heat exchanger (4b), wherein each of the heat exchangers (4) comprises a chamber (14), a first line (12a) and a second line (12b), characterized in that the first heat exchanger (4a) and the second heat exchanger (4b) are configured to be operated in a first operating mode (101) and in a second operating mode (102), the capture system (1) comprising control means (5) configured to operate an alternation between the first operating mode (101) and the second operating mode (102).

(figure 1)