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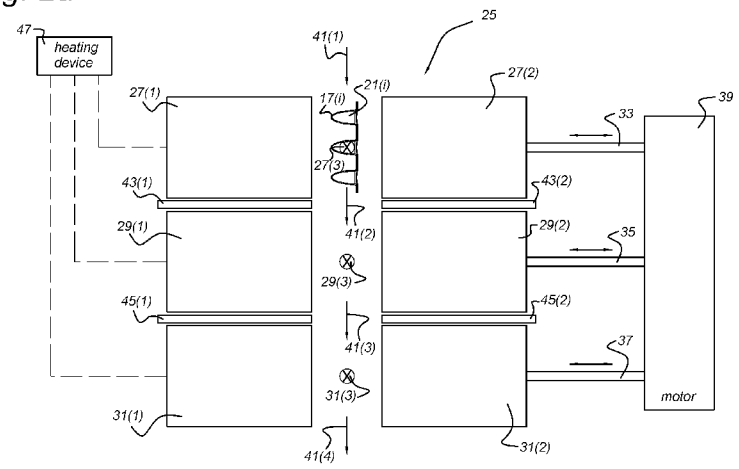
(54) **Title**: SYSTEM FOR AND METHOD OF CHANGING TEMPERATURES OF SUBSTANCES

Fig. 2a



(57) **Abstract**: Temperature control device for controlling a temperature of a substance to obtain a first temperature (T1) and to change to a second temperature (T2). The system has a first heating block (27(1)) and a second heating block (29(1) and a heating device (47). The heating device (47) heats the first heating block (27(1)) to the first temperature (T1) and heats the second heating block (29(1)) to the second temperature (T2). The temperature control device has a first material (27(2)) opposing the first heating block ((27(1)) such as to define a first space between them arranged to receive the substance and to define a first temperature zone (27(3)) having substantially the first temperature (T1). The temperature control device has a second material (29(2)) opposing the second heating block ((27(1)) such as to define a second space between them arranged to receive the substance and define a second temperature zone (29(3)) having substantially the second temperature (T2), the first and second spaces being arranged such that the substance can be moved from the first temperature zone ((27(3)) to the second temperature zone ((29(3)).