CONTINUOUS-FLOW ELECTROMAGNETIC-INDUCTION FLUID HEATER IN A BEVERAGE VENDING MACHINE

ABSTRACT

A continuous-flow electromagnetic-induction fluid heater (1, 1', 1'') in a beverage vending machine. The continuous-flow electromagnetic-induction fluid heater (1, 1', 1'') comprises a tubular body (7) having a longitudinal axis (A), internally defining at least one channel (7a) for a fluid, and including at least one inlet opening (8) through which the fluid to be heated is fed, in use, to the channel (7a), and one outlet opening (10) through which the heated fluid flows out, in use, from the channel (7a); a heating element (13, 13', 13'') arranged, at least partially, inside the channel (7a) so as to be lapped, in use, by the fluid; and an electric winding (11) which is wound directly in contact around an external surface (12) of the tubular body (7) and which can be electrically powered to generate an electromagnetic induction field and heat, in this manner, the heating element (13, 13', 13'') by the effect of said electromagnetic induction field. The inlet and outlet openings (8, 10) are arranged at respective opposite axial ends of the tubular body (7) in respective eccentric positions with respect to the longitudinal axis (A).

Figure 1