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ABSTRACT OF THE DISCLOSURE

INFUSION PUMP

Disclosed is an infusion pump which feeds an infusion by a peristaltic motion by successively pressing an infusion tube, can keep the flow rate of the infusion substantially constant at all times without being affected by an atmospheric temperature, does not abruptly change the amount of the infusion even if the number of drips detected by a drip probe unit is abruptly increased or decreased and is not stopped by a slight bubble, the infusion pump comprising an infusion actuation unit driven by a drive motor for generating the peristaltic motion, a setting/input means for setting and inputting the flow rate of the infusion, a temperature sensor disposed in the vicinity of the infusion tube for measuring the temperature of the infusion tube, a controller for selecting a previously stored correction coefficient based on the flow rate of the infusion input through the setting/input unit and increasing or decreasing the rotational velocity of the drive motor depending upon the selected correction coefficient, the drip probe unit disposed at midpoint in the infusion tube for measuring the number of drips and a controller for reducing the rotational velocity of the drive motor at a specific ratio when the number of drips

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measured by the drip probe unit abruptly changes and thereafter returning the rotational velocity to the normal number of revolutions. The infusion pump further comprises a pair of ultrasonic sensors disposed at midpoint of the infusion tube and a determination unit for comparing the output value from the ultrasonic wave sensor with a reference value and determining that a bubble exists when the output value is continuously smaller than the reference value longer than a specific period of time.

(Fig. 2)

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