

Title (en)

PERISTALTIC PUMP HAVING REDUCED PULSATION AND USE OF THE PERISTALTIC PUMP

Title (de)

PERISTALTIKPUMPE MIT VERRINGERTER PULSATION UND VERWENDUNG DER PERISTALTIKPUMPE

Title (fr)

POMPE PÉRISTALTIQUE À PULSATION RÉDUITE ET UTILISATION DE LA POMPE PÉRISTALTIQUE

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Application

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Abstract (en)

[origin: WO2014195475A2] The invention relates to a peristaltic pump (1), comprising a saddle and a rotor (3) that can be rotated therein, between which a hose (4) is arranged. The rotor (3) bears hose-squeezing means (6), which slide over the hose (4) with the rotation of the rotor (3) and thus pump a pumping fluid. Pulsation effects occur when the hose-squeezing means (6) emerge from the hose (4). According to the invention, said pulsation effects are suppressed by suitably shaping an inner saddle surface (5) on which the hose (4) rests. In addition, the pulsation effects can be reduced or avoided by adjusting the rotational speed of the rotor in a controlled manner, suitably selecting a pumping end position for the metering of the pumping medium, or defining certain unchanging pumping end positions. The invention further relates to the use of such a peristaltic pump (1) for metering.

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