

Title (en)  
PERISTALTIC HOSE PUMP

Title (de)  
PERISTALTISCHE SCHLAUCHPUMPE

Title (fr)  
POMPE TUBULAIRE PERISTALTIQUE

Publication  
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Application  
**EP 01995604 A 20011210**

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Abstract (en)  
[origin: WO0248549A1] The invention relates to a peristaltic hose pump comprising a roller wheel (1), which can rotate about a roller wheel axis D and which has rollers (2) that are mounted on the roller wheel (1). The rollers (2) roll away on a circular path having a radius R1 with regard to the roller wheel rotation axis D. The peristaltic hose pump also comprises a pressure arched element (3) with a supporting surface (4), whereby the supporting surface (4) extends along a circular path having a radius R2 around the rotation axis D of the roller wheel (1). In addition, a flexible hose (19) can be placed between the supporting surface (4) and the rollers (2) of the roller wheel (1). According to the invention, the supporting surface (4) is formed out of an elastically deformable synthetic material, and the pressure arched element (3) is pre-shaped with the provision that the extension of the supporting surface (4), when the pressure arched element (3) is not under tension, essentially corresponds to the extension of the supporting surface (4) when under tension.

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