

Title (en)  
Peristaltic pump.

Title (de)  
Peristaltische Pumpe.

Title (fr)  
Pompe péristaltique.

Publication  
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Application  
**EP 80401357 A 19800924**

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Abstract (en)  
1. Peristaltic pump comprising a casing (1) constructed in two sections with a detachable cover (2) ; a rotor (11) providing a support for rollers (15) and rotatably mounted on the shaft (12) of the casing (1) which is perpendicular to the cover, rollers (15) which have a conical surface centered on the shaft (12) of the casing ; resilient means for applying said rollers (15) against one wall of the cover (2) when this latter is in the closed position, a tube (24) being flattened against a stationary supporting track at least to a partial extent by said rollers (15), said pump being characterized in that the rollers (15) are applied against the edges of a channel (27) for receiving the tube (24), the channel being of variable depth and having a bottom wall which constitutes said supporting track ; that this channel (27) for receiving the tube (24) is formed in the detachable cover (2) and that said channel has a first upstream segment (E-A) in which its depth decreases progressively, an intermediate delivery segment in which its depth remains constant and sufficiently small to ensure that the tube (24) is completely closed locally by flattening when a roller (15) passes, at all points over a length of this channel which corresponds at least to the distance between two successive rollers, the depth of said channel (27) being such as to increase progressively and continuously along a downstream segment (B-C) until it attains the thickness of the tube when no roller pressure is applied.

Abstract (fr)  
Une pompe péristaltique comporte un rotor (11) support de galets (15), monté rotatif autour de l'axe (12) d'un circuit sensiblement circulaire défini pour un tube (24) élastiquement déformable, et portant des galets presseurs coniques (15) montés radialement dans le rotor (11), rotatifs sur leurs axes (17) respectifs, de manière à suivre ledit circuit au cours de la rotation du rotor (11), en écrasant au moins partiellement ledit tube (24) contre une piste d'appui fixe. La paroi formant cette piste d'appui présente une surface conique de même inclinaison que les galets (15) sur l'axe (12) du rotor (11). On impose, à la sortie de la pompe, par la forme de la piste d'appui en liaison avec la trajectoire des galets (15), une libération progressive de la pression des galets, sur un tronçon aval (B-C) du circuit, où l'écart entre la trajectoire des galets (15) et la piste d'appui augmente progressivement.

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