

Title (en)  
CLOSED SYSTEM ROTARY MACHINE

Title (de)  
ROTATIONSMASCHINE MIT KAPSELSYSTEM

Title (fr)  
MACHINE TOURNANT A CAPSULISME

Publication  
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Application  
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Abstract (en)  
[origin: WO2004022976A1] The invention relates to a closed system rotary machine. The inventive machine comprises an inner shaped element (1) and an outer shaped element (2) which define therebetween cavities or capsules having a variable volume (V1, , V9). The contact points which define the capsules (C1, , C9) are disposed along lines of action (CA1, CA2, CA3) which are concurrent at junction points BN and BM, where said cavities begin and end respectively. According to the invention, the contacts (C2) at points located on the tangent (T) common to both pitch circles (6, 7) are osculating elements with a shared centre of curvature which is situated at the rolling point (R) of the pitch circles (6, 7). The invention can be used to ensure that the capsules form and disappear very gradually and to facilitate the distribution of the capsules when they are forming and disappearing in order to increase the leak paths.

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