

Title (en)
SEALING ARRANGEMENT FOR SHAFT AND TUNNEL CONSTRUCTION

Title (de)
DICHTANORDNUNG FÜR SCHACHT- UND TUNNELBAUTEN

Title (fr)
SYSTÈME D'ÉTANCHÉITÉ POUR LA CONSTRUCTION DE PUITS ET DE TUNNELS

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Abstract (en)
[origin: WO2010112015A2] The invention relates to a sealing arrangement for shaft and tunnel construction. In the sealing arrangement according to the invention, the elastic tension forces that arise when the sealing systems are pressed against each other by reducing the joint clearance, after said systems have been brought into contact with each other, are reduced or completely avoided relative to sealing arrangements according to prior art, and the required surface contact pressure is achieved by means of a self-sealing force effect of the media pressure. In order to achieve said force effect, the geometry of the sealing elements of the sealing system is designed such that said elements comprise pressure surfaces relative to a vacuum or atmosphere after contacting each other. A differential pressure acts on said pressure surfaces due to the pressure difference between the media, resulting in the force ensuring the required surface contact pressure on the surface, by means of which the sealing elements contact one another at the contact plane.

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