

Abstract**MECHANICAL SEAL ASSEMBLY WITH MONITORING FUNCTION,
AND METHOD FOR THE SAME**

The invention relates to a mechanical seal arrangement comprising a slide ring seal (2)
5 having a rotating slide ring (3) and a stationary slide ring (4) defining a sealing gap (5)
therebetween, the rotating slide ring (3) having a first slide surface (30) with a first information
structure (6), the stationary slide ring (4) having a second slide surface (40) with a second
information structure (7) wherein the first information structure (6) and the second information
10 structure (7) at least partially overlap in an overlap area (16), at least one sensor (8) for
detecting sound and/or vibration, wherein the sound and/or the vibration is generated by the
first information structure (6) when moving past the second information structure (7), and an
evaluation unit (10), which is arranged to compare the sound and/or the vibrations detected
with set values and to output a comparison result, characterized in that the second
15 information structure (7) has a second sliding surface (40) with a second information structure
(7), wherein the first information structure (6) and the second information structure (7) at least
partially overlap in an overlap area (16).

(Fig. 1)