

Title (en)

STEAM TURBINE WITH SEALING SHELL AND MAGNETIC BEARING ARRANGED THEREIN

Title (de)

DAMPFTURBINE MIT DICHTSCHALE UND DARIN ANGEORDNETEM MAGNETLAGER

Title (fr)

TURBINE À VAPEUR AVEC COQUE D'ÉTANCHÉITÉ ET PALIER MAGNÉTIQUE DISPOSÉ DANS CELLE-CI

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Application

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Abstract (en)

[origin: WO2015176830A1] The invention relates to a steam turbine (1) having a turbine housing (2), a rotor shaft (4) which protrudes into the interior of the turbine housing (2), at least one sealing shell (6) which is arranged in a sealing shell receiving area (5) of the turbine housing (2) so as to seal the rotor shaft (4), and a magnetic bearing arrangement (13) for bearing the rotor shaft (4). The invention is characterized in that at least one magnetic bearing element (14a, 15a, 15b; 20) of the magnetic bearing arrangement (13) is arranged in the sealing shell (6). The invention further relates to a sealing shell (6) for a steam turbine (1) for sealing a rotor shaft (4) protruding into a turbine housing (2) of the steam turbine (1), said sealing shell being characterized in that at least one magnetic bearing element (14a, 15a, 15b; 20) of a magnetic bearing arrangement (13) is arranged in the sealing shell (6) in order to support the rotor shaft (4).

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Citation (search report)

See references of WO 2015176830A1

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