

Title (en)
COVER DISK FOR A CLOSED IMPELLER

Title (de)
DECKSCHEIBE FÜR EIN GESCHLOSSENES LAUFRAD

Title (fr)
PANNEAU DE COUVERTURE POUR UNE ROUE À AUBES FERMÉE

Publication
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Application
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Abstract (en)
[origin: WO2009112242A2] The invention relates to a cover disk (1) for a closed impeller of a radial or diagonal turbomachine for the definition of a flow channel, having a wall thickness that has a local maximum along the profile center line of the meridian cross-section of the cover disk between a first and a second front (2, 3) of the cover disk, wherein an outer surface (1.2) of the cover disk facing away from the flow channel has a convex curvature with a radius (R2.2) in the region of said local maximum, the ratio (R2.2/D2) of which to an outside diameter (D2) of the impeller is in a range of 0.05 to 0.5 ($0.05 = R2.2/D2 = 0.5$).

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Citation (examination)
• US 2004136825 A1 20040715 - ADDIE GRAEME R [US], et al
• US 2392858 A 19460115 - MCMAHAN KENTON D
• DE 2555101 B1 19761021 - KLEIN SCHANZLIN & BECKER AG
• US 2344444 A 19440314 - JEREMI MALCZEWSKI

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EP 2222962 B1 20171227; JP 2011509373 A 20110324; JP 5175363 B2 20130403; US 2011008160 A1 20110113; US 8469669 B2 20130625;
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