

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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Priority

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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 ($0.05 = R2.2/D2 = 0.5$).

IPC 8 full level

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