

Title (en)

Volute for a centrifugal pump

Title (de)

Spiralgehäuse für eine Kreiselpumpe

Title (fr)

Volute pour une pompe centrifuge

Publication

EP 1522738 A3 20100120 (DE)

Application

EP 04104313 A 20040908

Priority

DE 10347302 A 20031008

Abstract (en)

[origin: EP1522738A2] Spiral housing for a centrifugal pump has in the central region of the flow spiral a flow cross-section with a length (X) to width (Y) ratio of 1.5-2 and a ratio of first partial height (Y1) to second partial height (Y2) of 0.25-1. The first partial height is measured between the boundary of the flow cross-section lying furthest from the inlet (E) of the flow medium and parallel to the longitudinal axis of the inlet and the intersection (P) of the length and the width. The second partial height is measured between the intersection of the length and the width and the boundary (j) of the flow cross-section lying next to the flow medium inlet and parallel to the longitudinal axis of the inlet. The boundary (j) of the cross-section and the further boundary (h) lying next to the impeller of the pump are arranged at a right angle (α) to each other.

IPC 8 full level

F04D 29/44 (2006.01)

CPC (source: EP)

F04D 29/445 (2013.01)

Citation (search report)

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- [A] DE 19956380 C1 20010104 - BOSCH GMBH ROBERT [DE]
- [A] DE 1628361 A1 19710819 - ROTRON MFG CO
- [A] HAGER J: "AUSLEGUNG VON K}HLMITTELPUMPEN F}R KRAFTFAHRZEUGMOTOREN", ATZ AUTOMOBILTECHNISCHE ZEITSCHRIFT, VIEWEG PUBLISHING, WIESBADEN, DE, vol. 97, no. 2, 1 February 1995 (1995-02-01), pages 86 - 90, XP000482854, ISSN: 0001-2785

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EP2610502A4; US11988218B2

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