

Title (en)  
A VOLUTE CASING FOR A CENTRIFUGAL PUMP

Title (de)  
SPIRALGEHÄUSE FÜR EINE KREISELPUMPE

Title (fr)  
ENVELOPPE À VOLUTE POUR POMPE CENTRIFUGE

Publication  
**EP 3211245 A1 20170830 (EN)**

Application  
**EP 16156930 A 20160223**

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Abstract (en)  
The present invention relates to a volute casing for a centrifugal pump, the volute casing (44) having an axis A and a centreline C L ; a cutwater tongue (54); an outlet duct (50) with an outlet opening (52) having a centre, the outlet opening (52) being surrounded by a collar (56) with a collar surface (56'); and the centreline C L of the volute casing (44) running via the axis of the volute casing (44) in a direction perpendicular to the collar surface (56'), wherein that the outlet duct (50) has a curved centreline C LOD , a constant circular cross section and a constant cross sectional area for the entire length of the curved centreline C LOD , and that the outlet opening (52) has a centreline C LO running via the centre of the outlet opening (52) in a direction perpendicular to the collar surface (56'), the centreline C LO of the outlet opening (52) being positioned at a distance D of from 0.25 to 0.8 times C from the centreline C L of the volute casing (44) where C is the distance of the cutwater tongue from the axis of the volute casing (44).

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Citation (search report)

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