

Title (en)
Sheet metal pump casing.

Title (de)
Metallblech-Pumpengehäuse.

Title (fr)
Carter de pompe en tôle.

Publication
EP 0442070 B1 19950412 (EN)

Application
EP 90123674 A 19901210

Priority
IT 8552490 A 19900213

Abstract (en)
[origin: EP0442070A1] A sheet metal casing with differentiated thickness for centrifugal pumps includes a substantially cup-shaped main body (2) formed by a peripheral wall (3) which is continuously joined to a transverse end wall (4); the body is coupled to a transverse sealing plate (9) opposite to the end wall (4) so as to define a pressure chamber (13) enclosing an impeller (14); a tangential delivery port (7) and an axial suction port (6). A funnel-shaped reinforcement element (20), has a frusto-conically shape and a transverse end portion (21) arranged inside the main body (2) and a substantially cylindrical longitudinal end portion (22) extending from the body main coaxially to the suction inlet (6). The transverse end portion (21) of the reinforcement element is at least peripherally overlapped and rigidly sealingly coupled to the end wall (4) of the main body so as to thereby define the transverse wall of the casing which is adjacent to the suction port in contact with the pumped liquid. <IMAGE>

IPC 1-7
F04D 29/42

IPC 8 full level
F04D 29/42 (2006.01)

CPC (source: EP)
F04D 29/4266 (2013.01); **F04D 29/4273** (2013.01)

Cited by
US6082960A; JP2014177881A; DE4101611A1; EP0494675A3; US5310310A; US5358380A; EP2375006A1; FR2958324A1; DE19838798C2; CN109196230A; JPWO2017168642A1; EP3434908A4; US10883513B2

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