

Title (en)  
CENTRIFUGAL PUMP FOR CRYOGENIC FLUIDS

Publication  
**EP 0317687 B1 19920129 (DE)**

Application  
**EP 87810695 A 19871126**

Priority  
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Abstract (en)  
[origin: EP0317687A1] The crown-type pump inducer (1) essentially comprises a hollow cylindrical shaped part (1). This is tapered on the pump side and runs out into a bearing bush (12) by means of which the crown-type pump inducer (1) can be fixed on a shaft. On the inlet side the hollow cylinder (1) is formed into helical shaped plates (2) which together form a spinner basket (4). The ends (6) of the plates (2) are jointly enclosed by an annular rim (8) whose outside (9) is flush with the periphery (10) of the plates (2). The outside (9) of the annular rim (8) is formed as a labyrinth seal. The ends (6) of the plates (2) run out into sharp edges (3). The rotating crown-type pump inducer (1) gathers the incoming fluid on the inlet side and conveys it axially backwards and at the same time radially outwards, thereby compressing the fluid. <IMAGE>

IPC 1-7  
**F04D 29/22**

IPC 8 full level  
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CPC (source: EP)  
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Cited by  
CN105370618A; CN102678935A; US5501574A; US5368438A; US6461520B1; WO9500186A1

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