

Title (en)
Production method for a closed impeller.

Title (de)
Herstellungsverfahren eines geschlossenen Flügelrades.

Title (fr)
Procédé de réalisation d'une roue à aubes fermée.

Publication
EP 0153221 A1 19850828 (FR)

Application
EP 85400203 A 19850207

Priority
FR 8402047 A 19840210

Abstract (en)
1. Process for constructing a closed bladed wheel, in which there are prepared a first disc (1) forming a hub and a second disc (2) or end plate by equipping them with blades (3) and the two discs (1 and 2) equipped with blades (3) are secured to one another, and there are provided on one of the discs (1 and 2) projecting elements (4, 6, 7, 8, 9) which are capable of cooperating with corresponding elements (2, 5) on the other disc which are suitable for receiving the projecting elements (4, 6, 7, 8, 9) with clamping, and the discs (1 and 2) are assembled so as to cause the projecting elements (4, 6, 7, 8, 9) of one disc to engage with the elements (2, 5) of the other disc, characterized in that the clamping is carried out by means of a shrinking on which is obtained by previously heating one of the two discs (1 or 2).

Abstract (fr)
On prépare un premier disque (1) formant moyeu et un deuxième disque (2) ou flasque, en les munissant d'aubes (3), et l'on rend les deux disques (1) et (2) munis d'aubes (3) solidaires l'un de l'autre. On prévoit sur chacun des disques (1) et (2) des moyens (4) susceptibles de coopérer avec des moyens correspondants de l'autre disque (5), tels que l'on puisse rendre les deux disques (1) et (2) solidaires l'un de l'autre par frettage. L'invention peut s'appliquer en particulier à la réalisation de roues de pompes ou d'autres machines centrifuges ou centripètes dont la veine d'écoulement radial du fluide est fermée.

IPC 1-7
F04D 29/22

IPC 8 full level
F04D 29/22 (2006.01)

CPC (source: EP)
F04D 29/2222 (2013.01)

Citation (search report)
• [AD] FR 2312671 A1 19761224 - CREUSOT LOIRE [FR]
• [A] US 1919970 A 19330725 - WOODS WILLIAM J

Cited by
DE19746850A1; US6523995B2; US5375974A; EP0511518A1; RU190999U1; CN101526088A; US5588803A; US5328332A; EP0911528A1; WO2019229434A1

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0153221 A1 19850828; EP 0153221 B1 19880928; AT E37589 T1 19881015; DE 3565301 D1 19881103; FR 2559544 A1 19850816; FR 2559544 B1 19880708

DOCDB simple family (application)
EP 85400203 A 19850207; AT 85400203 T 19850207; DE 3565301 T 19850207; FR 8402047 A 19840210