



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
31.03.2010 Bulletin 2010/13

(51) Int Cl.:
F04D 29/24 (2006.01)

(43) Date of publication A2:
27.08.2008 Bulletin 2008/35

(21) Application number: **08151673.4**

(22) Date of filing: **20.02.2008**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR
Designated Extension States:
AL BA MK RS

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(30) Priority: **21.02.2007 IT MI20070329**

(54) **Vortex impeller for centrifugal fluid-dynamic pumps**

(57) Vortex impeller (10) for centrifugal fluid-dynamic pumps, provided with a central eye (16), an outer circumferential edge (18) and a plurality of blades (12, 12') having respective starting points (14, 14') arranged at said eye (16) of the impeller (10), each pair of contiguous blades (12, 12') defining a channel (22) arranged be-

tween them, characterised in that each of said blades (12, 12') has a profile in plan consisting of a plurality of arcs of circumference (24, 24', 24'') arranged in sequence and joined together, pairs of consecutive arcs of circumference (24, 24'; 24', 24'') having different bending radii.

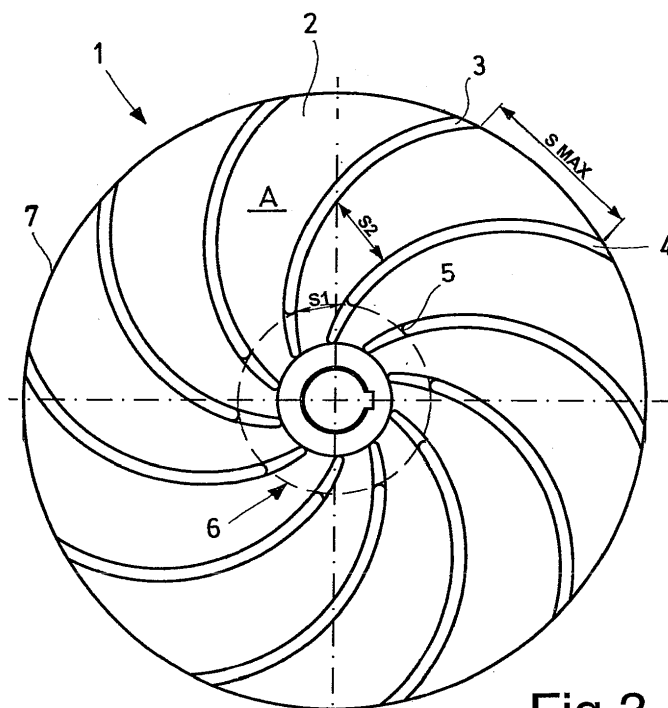


Fig.3



EUROPEAN SEARCH REPORT

Application Number
EP 08 15 1673

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Place of search Munich		Date of completion of the search 16 February 2010	Examiner de Martino, Marcello
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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