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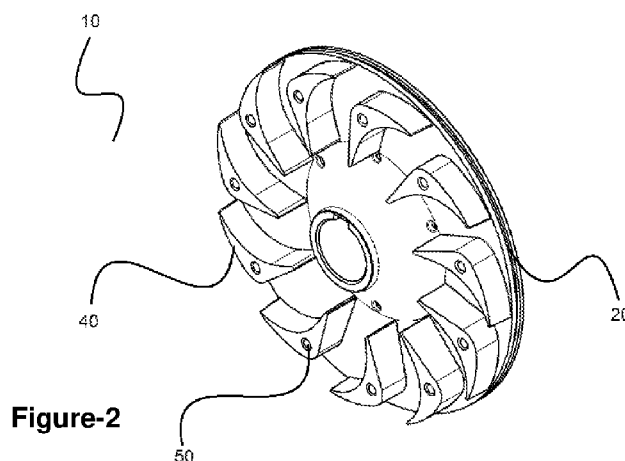
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(54) Title: CENTRIFUGAL PUMP IMPELLER



(57) Abstract: The present disclosure relates to an impeller (10), wherein the impeller is manufactured in two parts by machining to increase efficiency of centrifugal pumps, minimize friction losses and facilitate periodic inspections against potential risks of failure, wear and corrosion. The key benefit of the impeller (10) is the precision of the surface quality and minimization of friction losses achieved through the machining method, which is more precise compared to casting processes. With more precise surface quality, friction losses of the impeller (10) are minimized. This ensures maximum efficiency output from the pump. Another key benefit of the impeller (10) is that the housing (20) and vanes (40) are separately produced and assembled by means of a connection element (50).



INTERNATIONAL SEARCH REPORT

International application No.

PCT/TR2019/050347

A. CLASSIFICATION OF SUBJECT MATTER

F04D 29/24 (2006.01); F04D 29/22 (2006.01); F04D 29/62 (2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

F04D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC, WPI, EPOQUE, Espacenet, TURKPATENT

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CN 205503473U U (SUZHOU SBASOO AUTOMATION ENV PROT EQUIPMENT CO LTD) 24 August 2016 (2016-08-24) Abstract, figures 1-4	1-6
X	CN 207122439U U (JIANGSU JULANG PUMPS AND VALVES CO LTD; UNIV ZHEJIANG TECHNOLOGY) 20 March 2018 (2018-03-20) Abstract, description paragraphs 18-30, figures 1-4	1-6
X	CN 103511331 A (LIUZHOU SHUANGKAI INDUSTRY TECHNOLOGY CO LTD) 15 January 2014 (2014-01-15) The whole document	1-3,5-6
X	US 6276899 B1 (FLOWSERVE MAN CO [US]) 21 August 2001 (2001-08-21) The whole document	1,3-6

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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