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(54) **Title:** NARROWED IMPLANT BODY

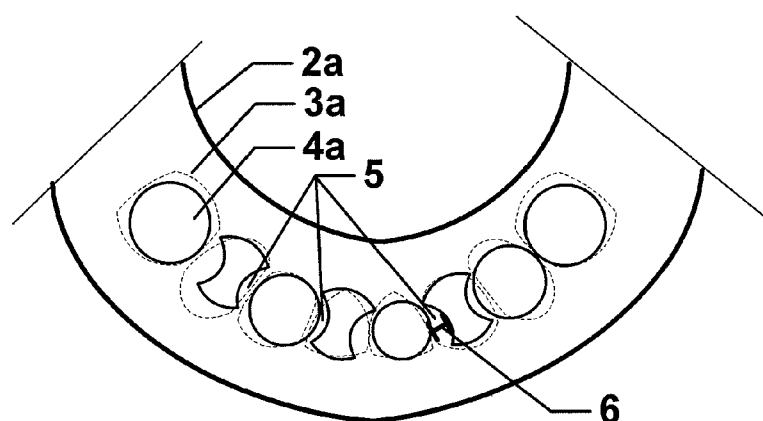


**Fig. 3f**

(57) **Abstract:** A dental implant includes a crown socket; an abutment; and an implant body having a shank that includes a threaded portion and a narrowing portion for increasing an offset distance to a tooth root adjacent to the implant body, the narrowing portion having an absence of threads. In another embodiment, a dental implant includes an implant body having a threaded tip portion distal from the abutment, a shank portion between the tip and the abutment, the shank portion having an unthreaded portion and a threaded portion in one cross-section through the shank portion.



## INTERNATIONAL SEARCH REPORT

International application No.  
**PCT/US2012/024410****A. CLASSIFICATION OF SUBJECT MATTER***A61C 8/00(2006.01)i, A61C 13/263(2006.01)i*

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)

A61C 8/00

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) &amp; Keywords: dental implant, crown socket, abutment, implant body, thread, narrowing portion

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                    | Relevant to claim No. |
|-----------|-----------------------------------------------------------------------------------------------------------------------|-----------------------|
| Y         | US 2010-0119993 A1 (SCHULTER, CARL W. et al.) 13 May 2010<br>See the abstract, claims 1, 27, and figures 3, 144, 146. | 1-15                  |
| Y         | KR 20-0350464 Y1 (DENTIUM CO., LTD.) 13 May 2004<br>See the abstract, claims 1, 3, and figure 1b.                     | 1-15                  |
| A         | KR 10-0808500 B1 (EBI CO., LTD.) 29 February 2008<br>See the abstract, claims 1, 3, and figures 1, 2.                 | 1-15                  |
| A         | US 2006-0183078 A1 (NIZNICK, GERALD A.) 17 August 2006<br>See the abstract, claim 1, and figure 1.                    | 1-15                  |



Further documents are listed in the continuation of Box C.



See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&amp;" document member of the same patent family

Date of the actual completion of the international search

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

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| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s)                                                                                                                                           | Publication<br>date                                                                                                        |
|-------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| US 2010-0119993 A1                        | 13.05.2010          | WO 2010-056730 A2<br>WO 2010-056730 A3                                                                                                                               | 20.05.2010<br>12.08.2010                                                                                                   |
| KR 20-0350464 Y1                          | 13.05.2004          | KR 10-2005-0078806 A<br>WO 2005-074832 A1                                                                                                                            | 08.08.2005<br>18.08.2005                                                                                                   |
| KR 10-0808500 B1                          | 29.02.2008          | None                                                                                                                                                                 |                                                                                                                            |
| US 2006-0183078 A1                        | 17.08.2006          | CA 2572943 A1<br>EP 1845886 A2<br>IL 180394 D0<br>JP 2008-529661 A<br>US 2010-0311013 A1<br>US 7699613 B2<br>US 8118596 B2<br>WO 2006-088680 A2<br>WO 2006-088680 A3 | 24.08.2006<br>24.10.2007<br>03.06.2007<br>07.08.2008<br>09.12.2010<br>20.04.2010<br>21.02.2012<br>24.08.2006<br>07.02.2008 |