A femoral component of a hip implant is disclosed. The femoral component may be used specifically in a neck sparing resection (i.e., any process or device that avoids removing the femoral neck) and may include a shortened stem (with respect to a conventional stem) having a terminal flare portion for internally contacting a medial calcar portion of the proximal femur, and a significant curvature on its medial side. Other features of the femoral component include, flat side portions on the anterior and posterior sides of the stem, a lateral fin or a wing or T-back to aid in resisting torsional forces. The femoral component may also include a sagittal slot for proper fitting and placement in the femoral canal. The femoral component may also include a neck component that is modular with respect to the stem component. A head component, whether monoblock or modular with respect to the neck component, may also be utilized as part of the femoral component.
Published:

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9 October 2008
INTERNATIONAL SEARCH REPORT

A CLASSIFICATION OF SUBJECT MATTER
IPC(8) - A61F 2/38 (2008.04)
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)
IPC(8) - A61F 2/38 (2008.04)

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

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST (PGPB, USPT, USOC, EPAB, JPAB), DialogPRO (Engineering) and Google Scholar
Search Terms femoral, stem, head, neck, flare, femur, short, short, shortened, convex, prosthesis, implant, lateral, protrude, protrusion, fin, wing back, morse, friction, hip, reduced, length, flat, planar, thickness, percent, teeth, axis

C DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category*</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>US 2004/0010319 A1 (MCTIGHIE et al) 15 January 2004 (15 01 2004) fig 1, A1, 1B, 1D, 2, 5, 6, 13, 21, para [0007], [0008], [0015], [0016], [0037], [0058], [0060], [0062], [0063], [0065], [0069], [0073], [0077], [0080], [0085], [0086], [0091], [0092], [0093], [0097], [0098], [0120], [0142], [0143], [0145], [0150], [0155]</td>
<td>1-4, 9-23, 26-28, 30-36, 38-54, 66-78, 80, 83, 84, 87-92, 95 and 97-101</td>
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<tr>
<td>Y</td>
<td>US 4,932,974 A (PAPPAS et al) 12 June 1990 (12 06 1990) fig 5, col 1, ln 16-20</td>
<td>81 and 82</td>
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Further documents are listed in the continuation of Box C

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14 July 2008 (14 07 2008)

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Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US, Commissioner for Patents
P O Box 1450, Alexandria, Virginia 22313-1450

Authorized officer
Lee W Young

Facsimile No 571-273-3201

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