Title: ANCHORING ELEMENT AND METHOD

Abstract: An anchoring element for use in bone has an apical end and a distal end. The apical end may be embedded in bone while the distal end may be left exposed. An abutment surface is disposed toward the distal end. The anchoring element may include first, second, third and fourth surfaces that define the apical end. The fourth surface may be disposed between an apical end and a distal end of the first surface, may joined to the third surface along an outer circumference of the fourth surface and may be employed to shave, cut or route an upstanding core remaining in the bone.
# INTERNATIONAL SEARCH REPORT

<table>
<thead>
<tr>
<th>Classification of Subject Matter</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPC(8) - A61C 13/30 (2012.01)</td>
</tr>
<tr>
<td>USPC - 433/174</td>
</tr>
<tr>
<td>According to International Patent Classification (IPC) or to both national classification and IPC</td>
</tr>
</tbody>
</table>

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC: A61C 13/30 (2012.01)
USPC: 433/174

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
IPC: A61B17/66, 17/58, 17/68, 17/84, 17/86, A61C13/00, 13/003, 13/007, 13/225, 13/263, 13/30 (2012.01)
USPC: 433/167, 172, 173, 174; 60/61, 53, 60, 300, 301, 304, 309, 311, 312, 314, 316

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST (PGPB, USPT, EPAB, JPAB), Google (Patent, Scholar); Keywords: dental, tooth, tooth, jaw, mandib, screw, anchor, implant, autograft, self, fill, bone, chip, fragment, morse, slot, hollow, cannula, lumen, cut, tap, flute, flut, edge, drill, tap, cut, osseointegrate

## 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 2005/0164146 A1 (Cantor) 28 July 2005 (28.07.2005) Abstract; para [0092], [0094]; Fig. 5, 7, 8, 31, 33</td>
<td>1, 19, 2-18, 20-25</td>
</tr>
<tr>
<td>Y</td>
<td>US 5,098,435 A (Sedlizit et al.) 24 March 1992 (24.03.1992) col 6, In 35-50; col 7, In 20-29; col 8, In 60 to col 9, In 5; Fig. 2, 3</td>
<td>2-18, 20-25</td>
</tr>
<tr>
<td>Y</td>
<td>US 5,129,901 A (Decoste) 14 July 1992 (14.07.1992) col 4, In 1-32; Fig. 4</td>
<td>2-18, 21-23</td>
</tr>
</tbody>
</table>

Further documents are listed in the continuation of Box C.

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "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
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "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
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search
01 May 2012 (01.05.2012)

Date of mailing of the international search report
08 May 2012

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
Facsimile No. 571-272-3201

Authorized officer:
Lee W. Young
PCT Helpdesk: 571-272-4300
PCT OSP: 571-272-7774

Form PCT/ISA/210 (second sheet) (July 2009)