

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
9 February 2006 (09.02.2006)

PCT

(10) International Publication Number
WO 2006/014364 A3

- (51) International Patent Classification:
A61C 3/00 (2006.01)
- (21) International Application Number:
PCT/US2005/023587
- (22) International Filing Date: 30 June 2005 (30.06.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:

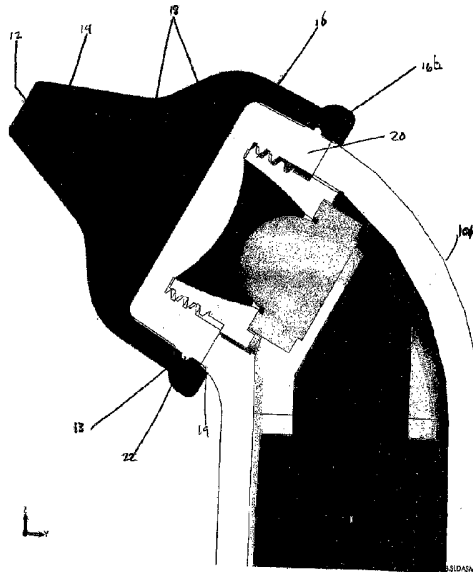
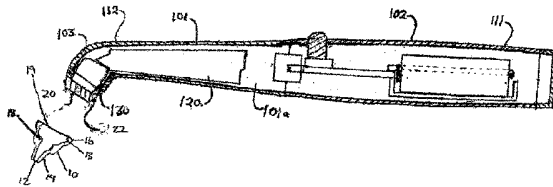
60/585,224	2 July 2004 (02.07.2004)	US
60/631,267	26 November 2004 (26.11.2004)	US
60/658,517	3 March 2005 (03.03.2005)	US
60/664,696	22 March 2005 (22.03.2005)	US
60/594,297	25 March 2005 (25.03.2005)	US
60/594,327	30 March 2005 (30.03.2005)	US
- (71) Applicant (for all designated States except US): DISCUS DENTAL IMPRESSIONS, INC. [US/US]; 8550 Higuera Street, Culver City, California 90232 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): WONG, Joseph

[US/US]; c/o DISCUS DENTAL IMPRESSIONS, INC., 8550 Higuera Street, Culver City, California 90232 (US).
HAYMAN, Robert [US/US]; c/o DISCUS DENTAL IMPRESSIONS, INC., 8550 Higuera Street, Culver City, California 90232 (US).

- (74) Agents: BERGMAN, Michael et al.; BERGMAN KUTA LLP, P.O. BOX 400167, Cambridge, MA 02140 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: CURING LIGHT HAVING A DETACHABLE TIP



(57) Abstract: The present invention relates to a curing light (100) having a detachable tip (10) for spot curing of light sensitive composites. A series of tips (10) having varying apertures (12) is also envisioned. The present invention also relates to a curing light (100) having a detachable tip (10) for effecting partial curing of light sensitive composites. The advantage of the tip (10) of the present invention, as compared to prior art tips, is that it is adapted to be fitted over the end (112) of a curing light device without the need to remove any protective cover, focusing lens (20) or similar structure that may be mislaid or lost. It also offers the added advantage of a simplified design without the necessity for having built-in complex optical properties normally served by the protective cover while, at the same time, the tip (10) retains the advantages offered by prior art tips.

WO 2006/014364 A3



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:
24 August 2006

Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/23587

A. CLASSIFICATION OF SUBJECT MATTER
 IPC: **A61C 3/00(2006.01)**

USPC: **362/573;433/29;250/540**
 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)
 U.S. : 362/573,555,328,307;433/29;250/540H

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/0215766 A1 (Fischer et al.) 20 November 2003 (20.11.2003), entire reference	1-7, 9, 10, 13-30
X	US 2004/0029069 A1 (Gill et al.) 12 February 2004 (12.02.2004), entire reference	7, 8, 10-12, 16, 23

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

* Special categories of cited documents:		"T"
"A"	document defining the general state of the art which is not considered to be of particular relevance	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
"E"	earlier application or patent published on or after the international filing date	"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
"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)	"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
"O"	document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 03 March 2006 (03.03.2006)	Date of mailing of the international search report 24 MAY 2006
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) 273-3201	Authorized officer <i>Rhonda for Bell</i> Sandra O'Shea Telephone No. (703) 308-7724