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(54) Title: DIAMOND DUSTED EXTRUSION CANNULA



(57) Abstract: An aspirating cannula for ophthalmic surgery is provided, having a soft tip with an abrasive coating at its distal end. These features combine the functionality of a soft-tip abrasive instrument with means to remove fluid from the eye. The aspirating

function of the cannula may be used to provide suction, thereby increasing the frictional force that can be applied by the abrasive tip coating, without requiring the surgeon to apply additional downward pressure on the retina. Several methods of advantageously using this cannula to perform ophthalmic surgical procedures are also disclosed.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 07/62922

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61M 1/00 (2007.10)

USPC - 604/27

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) - A61M 1/00 (2007.10)

USPC - 604/27

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

USPC - 604/27

(Text 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: cannula, eye, aspiration, eraser, abrasive, luer, infusion, dye, mark, drug, infusing, infuse, friction, suction, grasp, move, slide.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,575,989 B1 (SCHELLER et al.) 10 June 2003 (10.06.2003) fig 1A, part 42; fig 1B, part 51, 60; col 3, ln 30 - 44; col 4, ln 17 - 19; col 6, ln 1 - 18, 24 - 34, 64 - 65; col 7, ln 1 - 4, 12 - 16.	1, 16, 18, 19, 24 - 28
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Y		2 - 15, 17, 20 - 23
Y	US 6,491,670 B1 (TOTH et al.) 10 December 2002 (10.12.2002) col 1, ln 49 - 59.	2
Y	US 5,921,998 A (TANO et al.) 13 July 1999 (13.07.1999) fig 1A, part 3; col 1, ln 47 - 54; col 2, ln 45 - 59; col 3, ln 26 - 29, 32 - 40, 44 - 48.	3 - 11, 14, 15, 17
Y	US 6,800,076 B2 (HUMAYUN) 05 October 2004 (05.10.2004) col 2, ln 3 - 9, 43 - 46; col 3, ln 56 - 58; col 4, ln 61 - 67; col 5, ln 1.	12, 13, 22
Y	US 2006/0030785 A1 (FIELD et al.) 09 February 2006 (09.02.2006) para [0008].	20 - 23
Y	US 4,578,058 A (GRANDON) 25 March 1986 (25.03.1986) col 1, ln 60 - 63.	21 - 23

 Further documents are listed in the continuation of Box C.

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"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

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Date of the actual completion of the international search

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