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Patent Record Full View Thursday, January 16 2025 Derwent Innovation

PATENT/PUBLICATION:US20050240147A1

Key summary data

Patent	Dead	**Publication date**	2005-10-27
DWPI family	Alive	**Expiration date**	2024-04-21 (estimated)
INPADOC family	Alive	**Remaining life**	(0 year(s))
Original assignee	ExploraMed II Inc., Menlo Park, CA, US	**Domain Influence**	100.00
Optimized assignee	ACCLARENT INC	**Strategic Importance**	83.22
Ultimate parent	JOHNSON & JOHNSON	**Combined Patent Impact**	100.00

Bibliography

DWPI title

Disorder e.g. sinusitis, diagnosing/treating method, involves placing port device in nasal cavity, where device comprises device insertion port and valve that inserts working device through insertion port

Original Title

Devices, systems and methods for diagnosing and treating sinusitus and other disorders of the ears, nose and/or throat

Assignee/Applicant

Standardized: **EXPLORAMED II INCUS**

Original: ExploraMed II Inc., Menlo Park, CA, US

Optimized Assignee/Ultimate Parent

Optimized Assignee	Ultimate Parent
ACCLARENT INC	JOHNSON & JOHNSON

Neurent 1115
Neurent v. Foundry
IPR2024-00279

DWPI Assignee/Applicant

ACCLARENT INC (ACCR-C); EXPLORAMED II INC (EXPL-N); EXPLORAMED NC1 INC (EXPL-N)

Inventor

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Chang John, Mountain View, CA, US

DWPI Inventor

CHANG J; CHANG J Y; MAKOWER J

DWPI accession / Update

2005-766121 / 200578

Application number / Date

US2004829917A / 2004-04-21

Priority number / Date / Country code

US2004829917A / 2004-04-21 / US

DWPI Priority number / Date / Country code

US2004829917A / 2004-04-21 / US

Abstract

DWPI abstract

(US20050240147A1)

Novelty

The method involves placing a port device (10) in a nasal cavity that is on a side of an intranasal septum, where the device comprises a device insertion port and a valve that inserts a working device through the insertion port. The working device is advanced through the port device to a location within the nose, nasopharynx or paranasal sinus. The working device is used to perform a diagnostic or therapeutic procedure.

Detailed description

INDEPENDENT CLAIMS are also included for the following:

1. an anterior/posterior occlusion and access device comprising an anterior occluder
2. a disorder diagnosing/treating system comprising an anterior/posterior occlusion and access device
3. a device for removing polyps or other tissue from the nose, nasopharynx or paranasal sinus, comprising a flexible catheter.

Use

Used for diagnosing and treating a disorder e.g. sinusitis, paranasal sinuses (claimed), enlarged nasal turbinates, infection, hearing disorder, allergic condition, facial fracture and other disorders affecting nose, ear and throat.

Advantage

The port device is placed in the nasal cavity that is on the side of the intranasal septum, thus preventing backflow of blood or other fluid out of the device insertion port when working device is not inserted into the port.

Drawing description

The drawing shows a partial sectional view of a head of a human patient, depicting a right nasal cavity, right side of nasopharynx and an associated paranasal sinus.
10 - Port device.
14 - Anterior occluder.
16 - Tube.
18 - Posterior occluder.
30 - Device insertion port.

Abstract

Sinusitis, enlarged nasal turbinates, tumors, infections, hearing disorders, allergic conditions, facial fractures and other disorders of the ear, nose and throat are diagnosed and/or treated using minimally invasive approaches and, in many cases, flexible catheters as opposed to instruments having rigid shafts. Various diagnostic procedures and devices are used to perform imaging studies, mucus flow studies, air/gas flow studies, anatomic dimension studies, endoscopic studies and transillumination studies. Access and occluder devices may be used to establish fluid tight seals in the anterior or posterior nasal cavities/nasopharynx and to facilitate insertion of working devices (e.g., scopes, guidewires, catheters, tissue cutting or remodeling devices, electrosurgical devices, energy emitting devices, devices for injecting diagnostic or therapeutic agents, devices for implanting devices such as stents, substance eluting devices, substance delivery implants, etc.

Classes/Indexing

IPC

IPC Code (1-7) **A61F 2/06** A61M 1/00 A61M 29/00 A61F 13/00

(7)

Current IPC	Invention	Version	Additional	Version
Full	A61B 17/24 A61B 19/00 A61F 13/00 A61K 9/22	20060101 20060101 20060101 20060101	A61B 17/22 A61B 17/34 A61F 2/00 A61F 2/18	20060101 20060101 20060101 20060101

	A61M 1/00 A61M 29/00	20060101 20060101	A61F 2/82 A61M 25/00	20130101 20060101
Main Group	-	-	-	-
Subclass	-	-	-	-

CPC

Current CPC

Invention	Additional	Version	Office
A61B 17/24 A61B 10/0233 A61B 10/06 A61B 17/32053 A61B 17/320725 A61B 17/320758 A61B 17/320783 A61F 2/82 A61M 29/02	A61B 17/3478 A61B 2017/22061 A61F 2/18 A61F 2250/0039	20130101 20130101 20130101 20130101 20130101 20130101 20130101 20130101 20130101	EP; US EP; US EP; US EP; US EP; US EP; US EP; US EP; US EP; US
A61B 1/233 A61B 17/0218 A61B 17/1688 A61B 17/29 A61B 17/3201 A61B 17/32056 A61B 18/02 A61B 18/042 A61B 18/12 A61B 18/18 A61F 2/186 A61F 13/2005 A61M 16/0434 A61M 25/10 A61M 31/00 A61M 31/005 A61N 1/0541	A61B 1/313 A61B 2017/00477 A61B 2017/320052 A61B 2017/320064 A61B 2018/00327 A61B 2018/00595 A61B 2018/0212 A61B 2018/1405 A61B 2217/005 A61B 2217/007	20130101 20130101 20130101 20130101 20130101 20130101 20130101 20130101 20130101 20130101 20130101 20130101 20130101 20130101 20130101 20130101 20130101	US US US US US US US US US US US US US US US US US
A61F 11/20	-	20220101	US

Current Combination Codes CPC

Original CPC

Invention	Additional	Version	Office
A61B 17/24		20130101	US
A61B 1/233		20130101	US
A61B 10/0233		20130101	US
A61B 10/06		20130101	US
A61B 17/0218		20130101	US
A61B 17/1688		20130101	US
A61B 17/29	A61B 1/313	20130101	US
A61B 17/3201	A61B 17/3478	20130101	US
A61B 17/32053	A61B 2017/00477	20130101	US
A61B 17/32056	A61B 2017/22061	20130101	US
A61B 17/320725	A61B 2017/320052	20130101	US
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A61B 17/320783	A61B 2018/00327	20130101	US
A61B 18/02	A61B 2018/00595	20130101	US
A61B 18/042	A61B 2018/0212	20130101	US
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A61F 2/186	A61B 2217/007	20130101	US
A61F 2/82	A61F 2/18	20130101	US
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A61M 16/0434		20130101	US
A61M 25/10		20130101	US
A61M 29/02		20130101	US
A61M 31/00		20130101	US
A61M 31/005		20130101	US
A61N 1/0541		20130101	US
A61F 11/20	-	20220101	US

Original Combination Codes CPC

US Class

Current: **604/096.01**; 604/028; 604/101.01; 623/001.11

Original: **604/096.01**; 604/101.01; 604/028; 623/001.11

Field Of search: -

Locarno Class

-

DWPI class

S01 S02 S03 X26 P32 P34

DWPI manual codes

DWPI manual codes

EPI Manual Codes: S01-E02A2; S02-J04B3; S03-E07A; X26-G; X26-U02

DWPI chemistry resource numbers

DWPI Chemistry Resource Numbers

-

DWPI registry numbers

DWPI Registry Numbers

-

Plasdoc punch codes

Plasdoc Punch Codes

-

Plasdoc key serial codes

Plasdoc Key Serial Codes

-

Enhanced polymer indexing

Expand Enhanced Polymer Indexing

Chemical fragment codes

Expand Chemical Fragment Codes

Legal status

Predictive Analytics

Predictive Type	Data
Probability of Grant	**-**

Probability of Early Lapse	-
Probability of Restoration Post-Lapse	-

INPADOC Legal Status

Gazette Date	Code	Description
2021-07-21	MAFP +	MAINTENANCE FEE PAYMENT PAYMENT OF MAINTENANCE FEE, 12TH YEAR, LARGE ENTITY (ORIGINAL EVENT CODE: M1553) ENTITY STATUS OF PATENT OWNER: LARGE ENTITY FEE PAYMENT YEAR 12
2017-07-24	FPAY +	FEE PAYMENT FEE PAYMENT YEAR 8
2013-07-02	AS	ASSIGNMENT ACCLARENT, INC., CALIFORNIA CHANGE OF NAME ASSIGNOR:EXPLORAMED NC1, INC. REEL/FRAME:030745/0678 2005-04-29
2013-03-13	FPAY +	FEE PAYMENT FEE PAYMENT YEAR 4
2010-12-28	CC	CERTIFICATE OF CORRECTION
2010-01-13	STCF	INFORMATION ON STATUS: PATENT GRANT PATENTED CASE
2005-09-19	AS	ASSIGNMENT EXPLORAMED NC2, INC., CALIFORNIA ASSIGNMENT OF ASSIGNORS INTEREST ASSIGNORS:LAMSON, THEODORE CHARLES MAKOWER, JOSHUA CATANESE III, JOSEPH AND OTHERS REEL/FRAME:017004/0584 2005-07-11
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2004-09-07	AS	ASSIGNMENT EXPLORAMED II, INC., CALIFORNIA ASSIGNMENT OF ASSIGNORS INTEREST ASSIGNORS:MAKOWER, JOSHUA CHANG, JOHN Y. REEL/FRAME:015773/0955 2004-07-28
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Get Family Legal Status

US Reassignments

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Family

Family

Expand INPADOC Family (421) **INPADOC family:** Alive

Expand DWPI Family (14); Countries/Regions (109) **DWPI family:** Alive

Claims

Claims

1. A method for diagnosing and/or treating sinusitis or another disorder affecting the nose, paranasal sinuses or other anatomical structures of the ear, nose or throat, said method comprising the steps of: (A) placing a port device in the nostril or nasal cavity on at least one side of the intranasal septum, said port device comprising a device insertion port and a valve that is operative to allow a working device to be inserted through said device insertion port while preventing blood or other fluid from backflowing out of the device insertion port at least when no working device is inserted therethrough;
(B) advancing at least one working device through the port device to a location within the nose, nasopharynx or paranasal sinus; and
(C) using the working device to perform a diagnostic or therapeutic procedure

Expand All Claims (91)

Description

Drawing description

Expand Drawing Description

Description

Expand Description

Citations

Citation *Record level*

Citing Patents (787)

First 100 citing patents displayed following; click View as Result set to see all

	Publication number	Publication date	Application date	Assignee/Applicant	Title
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	CN102271749A	2011-12-07	2009-12-22	Acclarent Inc.	-
	CN110711026A	2020-01-21	2015-09-03	BOVIE MEDICAL CORP	Electrosurgical snare device

	CN111330146A	2020-06-26	2015-11-06	PHAGENESIS LTD	Catheter for recovery of dysphagia
	CN111683616A	2020-09-18	2018-12-18	BIOSENSE WEBSTER ISRAEL LTD	Balloon catheter with internal distal end
	CN113993572A	2022-01-28	2020-07-23	INNOVHEART S R L	DEVICE FOR ARRANGING GUIDE WIRES AROUND HEART VALVE
	CN116747412A	2023-09-15	2023-06-20	BEIJING YONGYI RUNCHENG TECH CO LTD	Multi-section paclitaxel drug balloon catheter convenient to connect
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	US10016304B2	2018-07-10	2015-07-16	TUSKER MEDICAL INC	Earplug assembly for iontophoresis system
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	US10130515B2	2018-11-20	2015-03-18	TUSKER MEDICAL INC	Mechanically registered videoscopic myringotomy/tympanostomy tube placement system
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	US10265115B2	2019-04-23	2017-09-06	AERIN MEDICAL INC	Methods and devices to treat nasal airways
	US10369337B2	2019-08-06	2016-04-26	ENTELLUS MEDICAL INC	Balloon dilation catheter for use in sinus passageways
	US10449268B2	2019-10-22	2017-04-14	ALLERGAN IND S A S	Stable hydrogel compositions including additives
	US10470647B2	2019-11-12	2018-03-22	SPIWAY LLC	Surgical tissue protection sheath
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	US10517580B2	2019-12-31	2015-06-27	BOSTON SCIENT SCIMED INC	Multi-lumen-catheter retractor system for a minimally invasive, operative gastrointestinal treatment
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	US10986984B2	2021-04-27	2018-12-06	SPIWAY LLC	Surgical tissue protection sheath
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	US11083878B2	2021-08-10	2020-12-27	ENTELLUS MEDICAL INC	Method and articles for treating the sinus system
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	US11426576B2	2022-08-30	2020-05-25	COCHLEAR LTD	Securing an implanted medical device in a patient
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	US11510722B2	2022-11-29	2019-10-03	AERIN MEDICAL INC	Pressure sensitive tissue treatment device
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	US11517425B2	2022-12-06	2019-07-25	INNOVHEART S R L	Device for implanting a prosthesis for a heart valve and assembly procedure
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	US11806265B2	2023-11-07	2020-08-27	SPIROX INC	Apparatus and methods for correcting nasal valve collapse
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Expand Cited Non-patents (33)

DPCI Citation ***Patent family level***

Expand DPCI Citing Patents (903)

Expand DPCI Cited Patents (100)

Expand DPCI Cited Non-patents (42)

Expand DPCI Citation Counts

Other

No Other exists for this Record

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