

[SS 1] diabetes and treatment

Results in EPODOC 29.021

[SS 2] 1 and device

Results in EPODOC 489

[SS 3] 2 and method

Results in EPODOC 170

[SS 4] 3 and carbohydrate

Results in EPODOC 1

[SS 5] ..v

[EPODOC: SS 5] 2 and carbohydrate

Results in EPODOC 3

[SS 6] ..vi

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[SS 6] ..v

[EPODOC: SS 6] ..li



- 1/3 © EPODOC / EPO
- PN

- [JP2016187629](#) A 20161104
- PR

- US201161516955P 20110412
- AP

- JP20160148324 20160728
- DT

- I
- CT

- || STSE (A)
[JPS61500710](#) A 19860417 [];
[JP2004000461](#) A 20040108 [] (AOKI THOMAS TAKEMI);
[JP2008272503](#) A 20081113 [] (AOKI THOMAS TAKEMI);
[JPS58221955](#) A 19831223 [] (DERUTA MEDICAL IND)
- CCI

- [A61K38/28](#) ; [A61M5/1456](#) ;
[A61M5/1723](#) ; [G06F19/00](#) ;
[G06F19/3468](#)
- CCA

- [Y02E50/17](#) ; [A61M2205/18](#) ;
[A61M2205/502](#) ;
[A61M2230/201](#)
- FI

- A61M5/172&500
- FT

- 4C066/AA07; 4C066/BB01;
4C066/CC01; 4C066/QQ24;
4C066/QQ61; 4C066/QQ82;



4C066/QQ92

PA

- AOKI THOMAS TAKEMI

TI

- PRE-OPERATIVE USE OF METABOLIC ACTIVATION THERAPY

AB

- PROBLEM TO BE SOLVED: To provide a **device** that stabilizes circulating glucose concentration in a subject having a high circulating glucose level prior to a scheduled surgical operation or other stress inducing procedures including those requiring hospitalization, and the **device** for restoration toward normality of the biochemistry and physiology.

SOLUTION:

This **device** has: a circulating glucose level measuring **device** for measuring an increase of the circulating glucose level from a predetermined level associated with ingestion of a **carbohydrate** containing meal, and measuring a decrease of a subsequent circulating glucose level caused by intravenous infusion of a series of insulin pulses; an insulin infusion **device** for injecting insulin in a series of pulses, and delivering the series of pulses every 2-8 times per **treatment** day; and a control unit for operating the insulin infusion **device**, and allowing a subject to experience restoration toward normality of the biochemistry and physiology.

The subject is a subject without **diabetes** or the subject who has not already received metabolic activation therapy in a long term.

SELECTED DRAWING:

Figure 1

2/3

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PN

- [US2016051171](#) A1 20160225

PR

- US201514835253 20150825; US201462041447P 20140825

AP

- US201514835253 20150825

DT

- *; Rep

CT

- || R141 (A1) [US2008319285](#) A1 20081225 [] (HANCOCK CHRISTOPHER PAUL [GB]); [US7371217](#) B2 20080513 [] (KIM DONG-KYUN [KR], et al);

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graph LR
    105[1 MMW Source] --> 110[2 MMW antenna or waveguide]
    110 --> 115[3 Human skin]
    115 --> 120[4 MMW antenna or waveguide]
    120 --> 125[5 MMW Analyzer]
    125 --> 130[6 Display]
  
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CTNP	- R141 (A1) [] - Jason J. Burmeister, Mark A. Arnold, and Gary W. Small. Noninvasive Blood Glucose Measurements by Near-Infrared Transmission Spectroscopy Across Human Tongues, Diabetes Technology & Therapeutics. July 2004, 2(1): 5-16.
CCI	- A61B5/0507 ; A61B5/14532
CCA	- A61B5/7235 ; A61B5/01 ; A61B5/021 ; A61B5/4848 ; A61B5/4866
PA	- CALIFORNIA INST OF TECHN [US]
TI	- METHODS AND SYSTEMS FOR NON-INVASIVE MEASUREMENT OF BLOOD GLUCOSE CONCENTRATION BY TRANSMISSION OF MILLIMETER WAVES THROUGH HUMAN SKIN
AB	- A device is described for interrogating human skin using tight coupling between the transmitter and receiver of the millimeter waves (MMWs). Methods are provided to evaluate changes in the amplitude and/or phase of the transmitted MMWs in order to estimate the blood concentration of glucose. Using this device and the related methods, the blood glucose concentration or a change in the blood glucose concentration can be monitored for diagnosing diabetes mellitus and other metabolic disorders of carbohydrate metabolism characterized by either high blood glucose level (hyperglycemia) or low blood glucose level (hypoglycemia), as well as for monitoring (including self-monitoring) a metabolic disorder progression or an efficacy of treatment .

- PN

- [WO0166165](#) A2 20010913

PNFP

- WO0166165 A3 20020314

PR

- US20000184354P 20000223

AP

- WO2001US05873 20010223

DT

- *; Rep

CT

- |US| ISR (A3)

[US5813570](#) A 19980929

[X] (FUCHS KARL-HEINZ [DE], et al);

[US5931304](#) A 19990803

[X] (HAMMOND DAVID A [US]);

[US5718245](#) A 19980217

[A] (HORN RODNEY K [US]);

[US5509578](#) A 19960423

[A] (LIVINGSTONE WILLIAM [GB])

CCI

- [A61M3/0262](#)

PA

- (A2 A3)

ZIONE RHODA [US]

TI

- (A2)

WOUND IRRIGATORS WITH CELL FILL TECHNOLOGY; WOUND IRRIGATION KITS DESIGNS; **CARBOHYDRATE** MANAGEMENT FOR DIABETIC CONTROL

- (A3)

WOUND IRRIGATORS AND WOUND IRRIGATION KIT DESIGNS

AB

- (A2)

A disposable apparatus: syringe or collapsible **device** for packaging liquids and solids for single use application. Irrigators with cell fill technology are an apparatus and associated method for packaging liquids and solids such as but not limited to saline solutions, gels, ointments and other semi-liquids for irrigation, lavaging, and **treatment** applications. The apparatus: syringe or **device**, having a fluid filled cell (35 ml) inside with flexible sidewalls and measurement markings such as but not limited to those of disposable blow-fill or cell-fill seal containers, and having a funnel apparatus for direct assess to tubes or **treatment** applications with a twist off cap. Typical procedures for both the syringe and the **device** involves the irrigation and **treatment** application that involve but are limited to the application of liquids, and gels. (Fig. 1, 2, 3). A system for medical management
-
- Drawings

Disposable Wound Irrigator Type

Blow-Fill Technology w/ irrigation funnel, twist-off top, spike funnel, engagement seal, fluid filled capsule, and push plunger base.

Purpose:

For use as a single unit, disposable Wound Irrigation device designed to FDA standard recommendations for wound irrigation.

of tissue irrigation or lavage procedures. Wound irrigation kits are a systematic way of organizing disposable or other equipment needed to perform a safe irrigation or lavage regimen. These kits are designed to enhance **treatment** applications, improve material cost management, and prevent infection caused by the use of contaminated equipment. There are seven kit designs (Fig. 4). A system for medial management of **diabetes** that includes an outline of nutrition management of **carbohydrate** intake. The **Carbohydrate** Management for **Diabetes Treatment** Scale is a tool to aid in the **treatment** of **diabetes** and enhances wound healing in the diabetic patient. The scales outlines **carbohydrate** intake of 100 to 300 gm per day to enhance the maintenance of optimal health.

- (A2 A3)

A disposable apparatus comprises a syringe or a collapsible type irrigator. A kit (4.0) containing the irrigator is also disclosed.