

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT5097605

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DAVID R HALL	08/11/2018

RECEIVING PARTY DATA

Name:	HALL LABS LLC
Street Address:	3000 SIERRA VISTA WAY
City:	PROVO
State/Country:	UTAH
Postal Code:	84606

PROPERTY NUMBERS Total: 96

Property Type	Number
Application Number:	16012758
Application Number:	15976438
Application Number:	15928418
Application Number:	15892834
Application Number:	62613563
Application Number:	15862091
Application Number:	15834441
Application Number:	15834404
Application Number:	15829557
Application Number:	15814721
Application Number:	15678461
Application Number:	15670191
Application Number:	15664045
Application Number:	15659945
Application Number:	15652727
Application Number:	15644149
Application Number:	15642904
Application Number:	15632807
Application Number:	15632636
Application Number:	15612071

PATENT

Property Type	Number
Application Number:	15611348
Application Number:	15601532
Application Number:	15597633
Application Number:	15589403
Application Number:	15497638
Application Number:	15497501
Application Number:	15494089
Application Number:	15493433
Application Number:	15472989
Application Number:	15465939
Application Number:	15460575
Application Number:	15433137
Application Number:	15414197
Application Number:	15412448
Application Number:	15410405
Application Number:	15400231
Application Number:	15398052
Application Number:	15392552
Application Number:	15383187
Application Number:	15380064
Application Number:	15379963
Application Number:	15378301
Application Number:	15377048
Application Number:	15367591
Application Number:	15361872
Application Number:	15360101
Application Number:	15359105
Application Number:	15352043
Application Number:	15346037
Application Number:	15338861
Application Number:	15338760
Application Number:	15337154
Application Number:	15336233
Application Number:	15333834
Application Number:	15293753
Application Number:	15290412
Application Number:	15284936
Application Number:	15284817

Property Type	Number
Application Number:	15279734
Application Number:	15277499
Application Number:	15277265
Application Number:	15271485
Application Number:	15270674
Application Number:	15265144
Application Number:	15257014
Application Number:	15250039
Application Number:	15248788
Application Number:	15242929
Application Number:	15234220
Application Number:	15230844
Application Number:	15222497
Application Number:	15222267
Application Number:	15213887
Application Number:	15213774
Application Number:	15201822
Application Number:	15196321
Application Number:	15193662
Application Number:	15176728
Application Number:	15176660
Application Number:	15176501
Application Number:	15176453
Application Number:	15168664
Application Number:	15150797
Application Number:	15063974
Application Number:	15063916
Application Number:	14944738
Application Number:	14825167
Application Number:	14825164
Application Number:	14825156
Application Number:	14702723
Application Number:	62702858
PCT Number:	US2018015085
PCT Number:	US2018014113
PCT Number:	US2018014003
PCT Number:	US2018013836
PCT Number:	US2017063917

CORRESPONDENCE DATA**Fax Number:**

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 6308029456
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Correspondent Name: LINDSAY DUNCAN
Address Line 1: 3000 SIERRA VISTA WAY
Address Line 4: PROVO, UTAH 84606

NAME OF SUBMITTER:	LINDSAY DUNCAN
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SIGNATURE:	/Lindsay Duncan/
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DATE SIGNED:	08/15/2018
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Total Attachments: 16

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ASSIGNMENT OF INVENTIONS AND PATENT RIGHTS

David R. Hall ("Assignor") is a named inventor of the inventions described in the attached list, with the Application Numbers, Publication Nos. (where applicable), Patent Nos. (where applicable), Docket Nos., Filing Dates and Titles noted thereon.

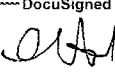
Hall Labs LLC ("Assignee") desires to acquire all rights in and to the listed inventions and all patent applications and patents resulting therefrom.

Therefore, for valuable consideration, the receipt of which is hereby acknowledged, Assignor assigns to Assignee all right, title, and interest in (a) the listed inventions and all improvements and modifications thereof, (b) the listed applications and patents and all other applications for Letters Patent of the United States and countries foreign thereto for the listed inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the International Convention and any other international agreement to which the United States adheres.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue Letters Patent to ASSIGNEE as assignee of the entire interest to the inventions, applications and patents listed, for the sole use and benefit of ASSIGNEE, its successors and assigns.

Assignor further agrees to: (a) cooperate with Assignee in the prosecution of the listed applications and any foreign counterparts; (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer; and (c) perform such other acts as Assignee lawfully may request to obtain or maintain the patents for the listed inventions in any and all countries.

Date: 8/11/2018

DocuSigned by:

0CEZF9BA2D09455

David R. Hall, Assignor

Assignments by David R. Hall					
Appl. No.	U.S. Pat. No.	Publ. No.	Docket No.	Filing Date	Title
16/012,758	-	-	181C	6/19/18	Health Monitoring System Including Camera for Measuring Body Proportions
15/976,438	-	-	178C	5/10/18	Augmented Reality Inventory Management System
15/928,418	-	-	177C	3/22/18	Augmented Reality Navigation System
15/892,834	-	-	135C.2	2/9/18	Drug Tracking System including Food Dyes Detectable in Bodily Waste
PCT/US18/15085	-	-	132C. PCT	1/24/18	IN-TOILET URINALYSIS SYSTEM WITH CAPILLARY DISPENSER
PCT/US18/14113	-	-	163C.PCT	1/17/18	REMOTE HEALTHCARE-MONITORING SYSTEM WITH USER ENABLED DIAGNOSTIC CAPABILITIES

Assignments by David R. Hall					
Appl. No.	U.S. Pat. No.	Publ. No.	Docket No.	Filing Date	Title
PCT/US18/14003	-	-	102V.PCT	1/17/18	AN INFRASTRUCTURE FOR AUTOMATIC OPTIMIZATION OF INVENTORY AND MERCHANDISE PLACEMENT
PCT/US18/13836	-	-	162C.PCT	1/16/18	HEALTH MONITORING SYSTEM INCLUDING PRIVACY-ENSURING OBFUSCATED CAMERA IMAGES
62/613,563	-	-	100X	1/4/18	Material-Backed Currency for Incentivizing Distributed Materials Discovery
15/862,091	-	-	176C	1/4/18	Automatic Bidet Wand Aiming System based on User's Center of Mass
15/834,441	10,012,660	US 2018-0149666 A1	15.108.3	12/7/17	Toilet Apparatus for Detecting Fluorescent Drug Markers in Urine

Assignments by David R. Hall					
Appl. No.	U.S. Pat. No.	Publ. No.	Docket No.	Filing Date	Title
15/834,404	-	US 2018-0182367 A1	123C.2.287.TP	12/7/17	Toilet Seat which Dispenses Ultrasound Gel and Performs an Ultrasound Analysis of a User's Thigh
15/829,557	-	-	100V	12/1/17	System for Automatically Monitoring a Supply of a Consumable Product, Replenishing the Supply, and Methods of Use
PCT/US17/63917	-	-	101V.PCT	11/30/17	AN INFRASTRUCTURE FOR AUTOMATICALLY DETECTING INTERACTIONS, AND ROOT CAUSES AND FOR OPTIMIZING REAL-WORLD PROCESSES
15/814,721	-	US 2018-0073234 A1	15.154.2.TP	11/16/17	Modular Toilet System and Components

Assignments by David R. Hall					
Appl. No.	U.S. Pat. No.	Publ. No.	Docket No.	Filing Date	Title
15/678,461	-	-	175C.469.TP	8/16/17	Doped and Non-Doped Titanium Dioxide Coated Antimicrobial Toilet
15/670,191	9,863,967	-	15.108.2.467.T P	8/7/17	Method of Detecting Fluorescent Drug Markers in Urine
15/664,045	9,986,879	US 2018-0008106 A1	15.200.CIP.TP	7/31/17	ANTIMICROBIAL SELF-CLEANING TOILET
15/659,945	-	-	173C.461.TP	7/26/17	Tandem Ion Modulator for Characterizing Larger Biomolecules in a Differential Mobility Spectrometer
15/652,727	-	US 2017-0322197 A1	15.037.CIP	7/18/17	Health Monitoring Toilet System
15/644,149	-	-	166C.458.TP	7/7/17	Intelligent Health Monitoring Toilet System with Wand Sensors

Assignments by David R. Hall					
Appl. No.	U.S. Pat. No.	Publ. No.	Docket No.	Filing Date	Title
15/642,904	-	-	101R.457.TP	7/6/17	Split Toilet Bowl for Separating Fecal Matter and Urine for Collection and Analysis
15/632,807	-	-	102R.450.TP	6/26/17	Toilet Bowl for Separating Fecal Matter and Urine for Collection and Analysis
15/632,636	-	-	170C.449.TP	6/26/17	Ion Modulator for Characterizing Larger Biomolecules in a Differential Mobility Spectrometer
15/612,071	9,970,949	-	172C.437.TP	6/2/17	Method for Identifying and Tracking Pharmaceutical and Nutritional Products using Nanoparticles of Different Sizes and Shapes

Assignments by David R. Hall					
Appl. No.	U.S. Pat. No.	Publ. No.	Docket No.	Filing Date	Title
15/611,348	-	-	169C.435.TP	6/1/17	Toilet System for Detecting Tags in Pharmaceutical and Nutritional Products which are Excreted in Solid Waste
15/601,532	-	-	168C.425.TP	5/22/17	Tags for Identifying and Tracking Pharmaceutical and Nutritional Products using Paramagnetic Microparticles and Detectable Chemicals
15/597,633	-	-	165C.422.TP	5/17/17	Fault Tolerant Method of Tagging Pharmaceutical and Nutritional Products using Multiple Taggants in Varying Ratios
15/589,403	-	-	142C.412.TP	5/8/17	Medical Toilet with Aptamer Sensors to Analyze Urine

Assignments by David R. Hall					
Appl. No.	U.S. Pat. No.	Publ. No.	Docket No.	Filing Date	Title
15/497,638	9,766,257	-	15.108.CIP.TP	4/26/17	Toilet that Detects Fluorescent Drug Markers and Methods of Use Thereof
15/497,501	-	-	160C.404.TP	4/26/17	Method of using a Library of Drug Taggants to Asses Decay in Stored Drug Compositions
15/494,089	-	-	158C.397.TP	4/21/17	Method of Determining Consumption of Decayed Drug through Drug Taggants
15/493,433	-	-	138C.393.TP	4/21/17	Identification of Consumed Drugs and Food by Unique Near Infrared Tag Libraries
15/472,989	-	-	136C.372.TP	3/29/17	Method of Measuring Artificial Sweeteners in Bodily Waste to Identify and Quantify Drug Consumption

Assignments by David R. Hall					
Appl. No.	U.S. Pat. No.	Publ. No.	Docket No.	Filing Date	Title
15/465,939	9,927,448	-	135C.360.TP	3/22/17	Method of Measuring Food Dyes in Bodily Waste to Identify and Quantify Drug Consumption
15/460,575	-	-	134C.353.TP	3/16/17	Nucleic Acid Drug Tags and Methods of Tracking the Tags in Bodily Waste
15/433,137	-	-	125C.323.JR	2/15/17	Headset Otoscope
15/414,197	-	-	132C.306.TP	1/24/17	In-Toilet Urinalysis System with Capillary Dispenser
15/412,448	-	US 2017-0251996 A1	15.011.TP	1/23/17	Toilet with Stethoscope
15/410,405	-	US 2018-0199921 A1	130C.302.TP	1/19/17	Cell-Based Artificial Olfactory Detector
15/400,231	-	US 2018-0192925 A1	15.202.2.TP	1/6/17	System for Analyzing Customized Test Strips
15/398,052	-	US 2018-0188247 A1	15.202.TP	1/4/17	Flushable Test Strip
15/392,552	-	-	123C.287.JR	12/28/16	IMPEDANCE MATCHING TOILET SEAT

Assignments by David R. Hall					
Appl. No.	U.S. Pat. No.	Publ. No.	Docket No.	Filing Date	Title
15/383,187	-	US 2018-0168556 A1	15.163.TP	12/19/16	Capillary Slit Urine Sampling System
15/380,064	-	US 2018-0172646 A1	128C.2.280.TP	12/15/16	Microfabricated Staged Preconcentration and Parallel Column for Gas Chromatography
15/379,963	-	US 2018-0172647 A1	128C.279.TP	12/15/16	Staged Preconcentration and Parallel Column Gas Chromatography
15/378,301	-	US 2018-0165417 A1	15.198.TP	12/14/16	Bathroom Telemedicine Station
15/377,048	-	US 2018-0165421 A1	120C.276.TP	12/13/16	Full Cycle Remote Pharmacy
15/367,591	9,993,161	US 2018-0153414 A1	115C.270.SM	12/2/16	Excrement-Based Body Temperature Measurement Device
15/361,872	9,671,343	-	15.108.TP	11/28/16	Toilet That Detects Drug Markers and Methods Of Use Thereof

Assignments by David R. Hall					
Appl. No.	U.S. Pat. No.	Publ. No.	Docket No.	Filing Date	Title
15/360,101	-	US 2018-0140284 A1	15.144.3.TP	11/23/16	Medical Toilet with User Customized Health Metric Validation System
15/359,105	-	US 2018-0142455 A1	100R.266.SM	11/22/16	Piston Flush Toilet with a Lubricating Piston
15/352,043	-	US 2018-0135287 A1	15.187.JR	11/15/16	Filtering Toilet
15/346,037	-	US 2018-0125374 A1	112C.261.TP	11/8/16	Breath Analysis Apparatus and Methods of Use Thereof
15/338,861	-	US 2017-0204595 A1	15.006.2.TP	10/31/16	Toilet with Air Sampling Exhaust
15/338,760	-	US 2017-0191859 A1	15.004.TP	10/31/16	Method For Acquiring Health Information From The Hydraulic Circuit Of A Toilet
15/337,154	9,939,307	US 2017-0198464 A1	122C.256.TP	10/28/16	Optical Proximity Sensor Based Toilet with Fill Tube Proximity Level Sensing

Assignments by David R. Hall					
Appl. No.	U.S. Pat. No.	Publ. No.	Docket No.	Filing Date	Title
15/336,233	-	US 2017-0198468 A1	15.006.TP	10/27/16	Toilet with Flush Jet Fill Tube Flow Meter
15/333,834	-	US 2018-0113995 A1	15.201.SM	10/25/16	Pharmaceutical Dispensing Method in an Unattended Medical Kiosk
15/293,753	9,801,508	-	15.172	10/14/16	Hidden Hinge Toilet Seat and Lid with Water and Electrical Access
15/290,412	-	US 2017-0260729 A1	15.05	10/11/16	Moving Air Curtain for Toilet Bidet Dryer
15/284,936	-	US 2018-0092602 A1	116C.240.SM	10/4/16	Synthetic Aperture Photoplethysmography Sensor
15/284,817	-	US 2018-0092335 A1	118C.239.TP	10/4/16	Animal Olfactory Detection of Disease as Control for Health Metrics Collected by Medical Toilet
15/279,734	-	US 2018-0085008 A1	15.144.2.TP	9/29/16	Health Metric Validation System

Assignments by David R. Hall					
Appl. No.	U.S. Pat. No.	Publ. No.	Docket No.	Filing Date	Title
15/277,499	9,927,302	US 2018-0087969 A1	114C.231.SM	9/27/16	In-Toilet Apparatus for Discrimination of Urine and Feces
15/277,265	-	US 2018-0084959 A1	121C.230.SM	9/27/16	Instrumented Toilet Seat
15/271,485	9,880,138	-	119C.225.TP	9/21/16	Medical Toilet for Diagnosing Disease and Use with Disease Sniffing Animal
15/270,674	-	US 2018-0078191 A1	15.144	9/20/16	Medical Toilet for Collecting and Analyzing Multiple Metrics
15/265,144	9,810,686	-	113C.224.LW	9/14/16	Urinalysis Cassette and System
15/257,014	9,867,513	-	102C.220.SM	9/6/16	Medical Toilet with User Authentication
15/250,039	-	US 2018-0055488 A1	108C.173.SM	8/29/16	Toilet Volatile Organic Compound Analysis System for Urine
15/248,788	9,913,626	US 2018-0055491 A1	101C.219.SM	8/26/16	Excreta-Sampling and Chilling Toilet

Assignments by David R. Hall					
Appl. No.	U.S. Pat. No.	Publ. No.	Docket No.	Filing Date	Title
15/242,929	-	US 2018-0052955 A1	15.216	8/22/16	Health Condition Determination System
15/234,220	-	US 2018-0042386 A1	15.205	8/11/16	User-Identifying Adjustable Smart Footstool
15/230,844	9,757,097	US 2016-0338677 A1	15.17	8/8/16	Urine Specimen Capture Device With A Capture Flange
15/222,497	-	US 2018-0030710 A1	15.164	7/28/16	Water Jet Waste Fragmenting Apparatus
15/222,267	-	US 2018-0031411 A1	15.162	7/28/16	Thin Weight Scale
15/213,887	-	US 2018-0020889 A1	15.156	7/19/16	Toilet With A Front Facing User-Accessible Compartment
15/213,774	9,845,593	US 2017-0121955 A1	15.154	7/19/16	Modular Toilet System and Components
15/201,822	9,737,181	-	15.2	7/5/16	Self-Cleaning Helical Drain Toilet
15/196,321	-	US 2018-0000417 A1	15.196	6/29/16	Toilet With A Health Monitoring Torso Belt

Assignments by David R. Hall					
Appl. No.	U.S. Pat. No.	Publ. No.	Docket No.	Filing Date	Title
15/193,662	9,915,060	US 2017-0370082 A1	15.194	6/27/16	Rinsing Toilet Seat
15/176,728	-	US 2017-0254526 A1	15.182	6/8/16	Toilet With An LED Diffuser Strip
15/176,660	9,920,510	US 2017-0254060 A1	15.181	6/8/16	Smart Flush Toilet System
15/176,501	9,743,903	-	15.18	6/8/16	Trending User Feedback Based On Toilet Noise Detection
15/176,453	-	US 2017-0356176 A1	15.179	6/8/16	Quiet Toilet Apparatus
15/168,664	9,957,705	US 2017-0198466 A1	15.175	5/31/16	HELICAL DRAIN FOR A TOILET
15/150,797	9,595,185	-	15.115	5/10/16	User Identifying Toilet Apparatus
15/063,974	9,822,519	US 2017-0260728 A1	15.045	3/8/16	Intelligent Dispensing Toilet Bidet System
15/063,916	-	US 2018-0002911 A1	15.041	3/8/16	Intelligent Position Dispensing Toilet Bidet System

Assignments by David R. Hall					
Appl. No.	U.S. Pat. No.	Publ. No.	Docket No.	Filing Date	Title
14/944,738	-	US 2017-0135677 A1	15.002	11/18/15	IN SITU SPECIMEN COLLECTION RECEPTACLE IN A TOILET AND BEING IN COMMUNICATION WITH A SPECTRAL ANALYZER
14/825,167	9,775,586	US 2015-0342576 A1	15.061	8/12/15	URINE HAT FLUSH WATER CAPTURE DEVICE
14/825,164	9,788,817	US 2015-0342575 A1	15.06	8/12/15	URINE SPECIMEN CAPTURE SLIT
14/825,156	9,592,034	US 2015-0342574 A1	15.059	8/12/15	URINE SPECIMEN CAPTURE AND ANALYSIS DEVICE
14/702,723	-	US 2016-0000378 A1	15.037	5/2/15	Human Health Property Monitoring System
62/702,858	-	-	183C-P	-	Pressure Mat and Algorithm for Measuring Pressure Distribution