505680641 09/19/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5727449

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------------------|----------------|
| RAFAEL ALBERTO VILLANUEVA | 09/18/2019 |

RECEIVING PARTY DATA

| Name: | CONTEC, LLC | |
|-----------------|-------------------|--|
| Street Address: | 1011 STATE STREET | |
| City: | SCHENECTADY | |
| State/Country: | NEW YORK | |
| Postal Code: | 12307 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15099418 |

CORRESPONDENCE DATA

Fax Number: (770)434-7376

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: 770-434-6868

Email:docketing@taylorenglish.comCorrespondent Name:HUBERT J. BARNHARDT III

Address Line 1: 1600 PARKWOOD CIRCLE, SUITE 200

Address Line 4: ATLANTA, GEORGIA 30339

| ATTORNEY DOCKET NUMBER: | 70965-1021 | |
|-------------------------|-------------------------|--|
| NAME OF SUBMITTER: | HUBERT J. BARNHARDT III | |
| SIGNATURE: | /hjb/ | |
| DATE SIGNED: | 09/19/2019 | |

Total Attachments: 2

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PATENT 505680641 REEL: 050431 FRAME: 0677

PATENT ASSIGNMENT

WHEREAS, I, Rafael Alberto Villanueva, a citizen of Mexico with a residence address of

116 Old Coach Rd., Clifton Park, NY 12065, in the United States of America, have invented

certain inventions and improvements disclosed in the Patent Application for United States Patent

entitled AUTOMATED NETWORK-BASED TEST SYSTEM FOR SET TOP BOX

DEVICES, filed in the United States Patent and Trademark Office on April 14, 2016, bearing

Serial No. 15/099,418, and listing as inventor(s): Rajeev Tiwari, Rafael Alberto Villanueva;

WHEREAS, Contec, LLC, a Limited Liability Company of the State of Delaware,

having its principal place of business at 1011 State Street, Schenectady, NY 12307 is desirous

of acquiring an interest in the same;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of

which is hereby acknowledged, I, Rafael Alberto Villanueva, by these presents do sell, assign

and transfer unto Contec, LLC, the full, exclusive and entire right, title and interest: (i) in and to

all inventions and improvements disclosed and described in said application, (ii) in and to said

application, (iii) in and to any divisional, continuation, and continuation-in-part applications

describing in whole or in part said inventions and improvements, preparatory to obtaining Patents

of the United States therefore, (iv) in and to any reissues of the aforementioned, (v) in and to any

provisional patent applications filed in the United States describing in whole or in part the said

inventions and improvements, from which priority may be claimed under Title 35 of the United

States Code, and (vi) in and to the right to claim any applicable foreign and domestic priority

rights arising from such provisional patent applications; I also hereby acknowledge that an

obligation for this assignment and for the assignment of all related subject matter arose before the

making of the invention and improvements disclosed and described in said application; and I

hereby request the Commissioner of Patents to issue any and all Patents of the United States

resulting from said application, or from a division, continuation, continuation-in-part, or reissue

thereof, to Contec, LLC as Assignee, for his or her interest and for his or her sole use and

behoof of his or her assigns and legal representatives;

PATENT

REEL: 050431 FRAME: 0678

For the same consideration, I, by these presents do sell, assign and transfer to **Contec**, **LLC** the full, exclusive and entire right, title and interest in and to any foreign application or applications corresponding to said application, in whole or in part, in countries other than the United States, in and to any Patents and similar protective rights granted on said foreign application, and in and to the right to claim any applicable priority rights arising from or required for said foreign application under the terms of any applicable conventions, treaties, statutes, or regulations; said foreign applications to be filed and issued in the name of **Contec**, **LLC** and or his or her respective designees, insofar as permitted by applicable law;

AND, for the same consideration, I agree to sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and other applications, make all assignments and rightful oaths, and generally do everything possible to aid **Contec**, **LLC** and his or her successors, assigns, and nominees to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

| 9/18/2019 Date | Rafael Alberto Villanueva |
|-------------------------------|---|
| STATE OF NEW YOYK | COUNTY OF Schene of ody |
| Before me, a Notary Public in | and for the State of Now York, on on 2019, personally appeared Rafael Alberto Villanueva, |
| • | knowledged the foregoing Assignment as his or her free act |
| and deed. | Moley & Phillips NOTARY PUBLIC |
| | My Commission Expires: 8/31/202 |

MARY E. PHILLIPS

NOTARY PUBLIC-STATE OF NEW YORK

No. 01PH5001209

Qualified in Schenectady County

My Commission Expires 08-31-

PATENT REEL: 050431 FRAME: 0679

RECORDED: 09/19/2019