

<b>PATENT ASSIGNMENT COVER SHEET</b>
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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
FLOYD W. SHACKELFORD	01/02/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	EXPRESS SCRIPTS STRATEGIC DEVELOPMENT, INC.
<b>Street Address:</b>	ONE EXPRESS WAY
<b>City:</b>	ST. LOUIS
<b>State/Country:</b>	MISSOURI
<b>Postal Code:</b>	63121
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16731267
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	ESRX-219US1
<b>NAME OF SUBMITTER:</b>	RANDY CANIS
<b>SIGNATURE:</b>	/Randy Canis/
<b>DATE SIGNED:</b>	01/27/2020
<b>Total Attachments: 3</b>	
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**ASSIGNMENT**

Each person (an “Assignor”) signing below has made or authorized to be made the following one or more patent applications (“Patent Applications”):

U.S. Application No. 16/731,267, filed December 31, 2019, titled SCALABLE SOFTWARE DEVELOPMENT AND DEPLOYMENT SYSTEM USING INVERSION OF CONTROL ARCHITECTURE; and

As background, the Patent Applications disclose, whether claimed or unclaimed, one or more inventions (“Inventions”), of which Assignor is an original inventor or an original joint inventor. Express Scripts Strategic Development, Inc. (“Assignee”), having a place of business at One Express Way, St. Louis, Missouri 63121, desires to acquire all right, title, and interest in and to “Intellectual Property” (as defined below) including the Inventions and the Patent Applications.

Assignor acknowledges and confirms any prior assignment(s) or obligation(s) of assignment, including by operation of law or agreement, from Assignor to Assignee of any part of the Intellectual Property.

For US\$1 and other good and valuable consideration, the receipt and adequacy of which is acknowledged, Assignor hereby irrevocably assigns, sells, and transfers all legal and equitable right, title, and interest in and to the Intellectual Property to Assignee. Assignee acknowledges and accepts the assignment, sale, and transfer. The right, title, and interest will be held and enjoyed by Assignee and Assignee’s successors in interest to the full end of any term, and to the full extent, as the Intellectual Property would have been held and enjoyed by Assignor if no assignment had been made to Assignee.

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  - b. any application to which any of the Patent Applications claims, can claim, or could have claimed priority or benefit directly or indirectly, where “application” includes (i) applications filed under the laws and treaties of the United States, other countries, regions, and international bodies, (ii) provisional patent applications and nonprovisional patent applications, and (iii) other applications for the protection of intellectual property, including

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- d. any application, whether or not linked by priority or benefit claim to the Patent Applications, that describes or claims at least one of the Inventions;
- e. any official grant (including a United States Patent) arising from any application identified in parts (a)–(d); and
- f. any modification or extension of any official grant, including reissues, reexaminations, renewals, substitutes, patents of addition, and extensions;
4. the right to claim priority to any of the foregoing Intellectual Property;
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Assignor requests, in each country in which an application encompassed by the Intellectual Property is filed, any official

## ASSIGNMENT

whose duty it is to make an official grant (such as the Director of the country's Patent Office) to issue the official grant to Assignee.

Assignor represents that Assignor has not entered, and agrees that Assignor will not enter, into any assignment, sale, license, agreement, transfer, or encumbrance that conflicts or will conflict with this Assignment. Assignor further agrees not to challenge, or assist in any challenge to, the Intellectual Property.

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Cooperation includes, at Assignee's request and without further or other compensation beyond the good and valuable consideration recited above, (i) promptly reviewing and executing all truthful instruments and documents, (ii) promptly providing Assignee with all pertinent facts and documents

relating to the Intellectual Property as may be known and accessible to Assignor, and (iii) testifying truthfully, under oath if necessary, orally and in writing.

For any reason, including by operation of law, in any respect and in any jurisdiction:

1. to the extent that the assignment, sale, and transfer fails, Assignor grants Assignee an unconditional, irrevocable, perpetual, worldwide, fully paid-up, royalty-free, exclusive license, including the right to sublicense;
2. to the extent that the exclusive license fails, the exclusive license will operate as a non-exclusive license; and
3. to the extent that the non-exclusive license fails, Assignor grants Assignee, Assignee's successors in interest, and each of their respective direct and indirect customers, a covenant not to sue, binding on Assignor's successors in interest.

If any provision of this Assignment is determined to be invalid or unenforceable for any reason, including by operation of law, all other provisions will remain in full force and effect, and Assignor and Assignee request the court or tribunal making such a finding to substitute an enforceable provision that most closely reflects the original.

Assignor grants Express Scripts Strategic Development, Inc. the power and authority to insert the corresponding application numbers, filing dates, and titles in the spaces provided above, or to correct any typographical errors in application numbers, filing dates, and titles, for any of the Patent Applications after execution of this Assignment.

ASSIGNMENT

*Floyd Shackelford*

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Floyd W. Shackelford

2 Jan 2020

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Date