

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7786652

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
WILLIAM DAN ROBERTS	11/19/2020
JANE ENGLEBRIGHT	11/20/2022
JONATHAN PERLIN	11/19/2020
MITCHEL DAVIS	12/18/2020
JODY MILLER	12/18/2020
LESLIE WERHANE	12/18/2020
WHITNEY STAUB-JUERGENS	12/18/2020
TABATHA COOPER	11/17/2020
STEPHANIE FULBRIGHT	10/15/2021
WILLIE FORD	12/17/2020
AMIT CHAUDHRI	12/18/2020
ERIC MATT	12/17/2020
JEFFREY CUTHBERT	12/18/2020
RECEIVING PARTY DATA	
Name:	C/HCA, INC.
Street Address:	2555 PARK PLAZA, BLDG. 4
Internal Address:	THIRD FLOOR
City:	NASHVILLE
State/Country:	TENNESSEE
Postal Code:	37203
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17521689
CORRESPONDENCE DATA	
Fax Number:	
<i>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.</i>	
Email:	vknowles@kilpatricktownsend.com
Correspondent Name:	KILPATRICK TOWNSEND & STOCKTON

Address Line 1: TWO EMBARCADERO CENTER
Address Line 2: EIGHTH FLOOR
Address Line 4: SAN FRANCISCO, CALIFORNIA 94111

ATTORNEY DOCKET NUMBER:	094335-1283129
NAME OF SUBMITTER:	VANESSA KNOWLES
SIGNATURE:	/Vanessa Knowles/
DATE SIGNED:	02/08/2023
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 26

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COMBINED ASSIGNMENT AND DECLARATION OF PATENT APPLICATION

Title of Invention: **SYSTEM AND METHOD FOR MULTI-TIER
RESOURCE AND SUBSYSTEM
ORCHESTRATION AND ADAPTATION**

Application No. **16/883,765**, filed on **May 26, 2020**

ASSIGNMENT

WHEREAS, I, **William Dan Roberts**, of **Nashville, TN**, am an original inventor or joint inventor of the invention disclosed in the above-identified application for a United States Letters Patent, hereinafter referred to as "Inventor";

WHEREAS, **C/HCA, Inc.**, a corporation of the State of Delaware having a principle place of business at **2555 Park Plaza, Building 4, Third Floor, Nashville, Tennessee 37203**, hereinafter referred to as "**C/HCA, Inc.**," is desirous of acquiring an interest in the invention and application and in any United States Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration to the inventor, the receipt of which is hereby acknowledged, I have assigned, and by these presents do assign to **C/HCA, Inc.** all right, title, and interest in and to the invention and application and to all foreign counterparts (including patent, utility model, and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title, and interest is to be held and enjoyed by **C/HCA, Inc.** and **C/HCA, Inc.**'s successors and assigns as fully and exclusively as it would have been held and enjoyed by me had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation, or extension thereof.

I further agree that I will, without charge to me, but at **C/HCA, Inc.**'s expense, (a) cooperate with **C/HCA, Inc.** in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge, and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as **C/HCA, Inc.** lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in **C/HCA, Inc.**, or **C/HCA, Inc.**'s successors and assigns. I waive any obligation of **C/HCA, Inc.** to file foreign counterparts on the invention or continue pursuit of prosecution of the invention and application and to all foreign counterparts, **C/HCA, Inc.** can in its sole discretion choose which countries to file foreign counterparts, unless I have previously informed **C/HCA, Inc.** in writing of any foreign counterparts I would like the option to pursue or prosecute.

I hereby authorize and request **Kilpatrick Townsend & Stockton LLP**, Two Embarcadero Center, Suite 1900, San Francisco, CA 94111, to insert herein above an application number and

filing date, when known, of any United States, International or foreign patent application that corresponds to the Application or is directed to any of the Invention(s).


DECLARATION

As the above named Inventor, I hereby declare that:

- This declaration is directed to the application listed above and any applications related by priority that may include claims or claim elements supported in the application listed above.
- The above-identified application was made or authorized to be made by me.
- I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
- I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than 5 years, or both.

IN TESTIMONY of both the Assignment and Declaration, I have signed my name on the date indicated.

Dated: 11/19/2020


William Dan Roberts

COMBINED ASSIGNMENT AND DECLARATION OF PATENT APPLICATION

Title of Invention: **SYSTEM AND METHOD FOR MULTI-TIER
RESOURCE AND SUBSYSTEM
ORCHESTRATION AND ADAPTATION**

Application No. **16/883,765**, filed on **May 26, 2020**

ASSIGNMENT

WHEREAS, I, **Jane Englebright**, of **Franklin, TN**, am an original inventor or joint inventor of the invention disclosed in the above-identified application for a United States Letters Patent, hereinafter referred to as "Inventor";

WHEREAS, **C/HCA, Inc.**, a corporation of the State of Delaware having a principle place of business at **2555 Park Plaza, Building 4, Third Floor, Nashville, Tennessee 37203**, hereinafter referred to as "**C/HCA, Inc.**," is desirous of acquiring an interest in the invention and application and in any United States Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration to the inventor, the receipt of which is hereby acknowledged, I have assigned, and by these presents do assign to **C/HCA, Inc.** all right, title, and interest in and to the invention and application and to all foreign counterparts (including patent, utility model, and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title, and interest is to be held and enjoyed by **C/HCA, Inc.** and **C/HCA, Inc.**'s successors and assigns as fully and exclusively as it would have been held and enjoyed by me had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation, or extension thereof.

I further agree that I will, without charge to me, but at **C/HCA, Inc.**'s expense, (a) cooperate with **C/HCA, Inc.** in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge, and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as **C/HCA, Inc.** lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in **C/HCA, Inc.**, or **C/HCA, Inc.**'s successors and assigns. I waive any obligation of **C/HCA, Inc.** to file foreign counterparts on the invention or continue pursuit of prosecution of the invention and application and to all foreign counterparts, **C/HCA, Inc.** can in its sole discretion choose which countries to file foreign counterparts, unless I have previously informed **C/HCA, Inc.** in writing of any foreign counterparts I would like the option to pursue or prosecute.

I hereby authorize and request **Kilpatrick Townsend & Stockton LLP**, Two Embarcadero Center, Suite 1900, San Francisco, CA 94111, to insert herein above an application number and

filing date, when known, of any United States, International or foreign patent application that corresponds to the Application or is directed to any of the Invention(s).

DECLARATION

As the above named Inventor, I hereby declare that:

- This declaration is directed to the application listed above and any applications related by priority that may include claims or claim elements supported in the application listed above.
- The above-identified application was made or authorized to be made by me.
- I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
- I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than 5 years, or both.

IN TESTIMONY of both the Assignment and Declaration, I have signed my name on the date indicated.

Dated: 11/20/2020


Jane Englebright

COMBINED ASSIGNMENT AND DECLARATION OF PATENT APPLICATION

Title of Invention: **SYSTEM AND METHOD FOR MULTI-TIER
RESOURCE AND SUBSYSTEM
ORCHESTRATION AND ADAPTATION**

Application No. **16/883,765**, filed on **May 26, 2020**

ASSIGNMENT

WHEREAS, I, **Jonathan Perlin**, of **Nashville, TN**, am an original inventor or joint inventor of the invention disclosed in the above-identified application for a United States Letters Patent, hereinafter referred to as "Inventor";

WHEREAS, C/HCA, Inc., a corporation of the State of Delaware having a principle place of business at 2555 Park Plaza, Building 4, Third Floor, Nashville, Tennessee 37203, hereinafter referred to as "C/HCA, Inc.," is desirous of acquiring an interest in the invention and application and in any United States Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration to the inventor, the receipt of which is hereby acknowledged, I have assigned, and by these presents do assign to C/HCA, Inc. all right, title, and interest in and to the invention and application and to all foreign counterparts (including patent, utility model, and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title, and interest is to be held and enjoyed by C/HCA, Inc. and C/HCA, Inc.'s successors and assigns as fully and exclusively as it would have been held and enjoyed by me had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation, or extension thereof.

I further agree that I will, without charge to me, but at C/HCA, Inc.'s expense, (a) cooperate with C/HCA, Inc. in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge, and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as C/HCA, Inc. lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in C/HCA, Inc., or C/HCA, Inc.'s successors and assigns. I waive any obligation of C/HCA, Inc. to file foreign counterparts on the invention or continue pursuit of prosecution of the invention and application and to all foreign counterparts, C/HCA, Inc. can in its sole discretion choose which countries to file foreign counterparts, unless I have previously informed C/HCA, Inc. in writing of any foreign counterparts I would like the option to pursue or prosecute.

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filing date, when known, of any United States, International or foreign patent application that corresponds to the Application or is directed to any of the Invention(s).

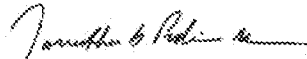
DECLARATION

As the above named Inventor, I hereby declare that:

- This declaration is directed to the application listed above and any applications related by priority that may include claims or claim elements supported in the application listed above.
- The above-identified application was made or authorized to be made by me.
- I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
- I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than 5 years, or both.

IN TESTIMONY of both the Assignment and Declaration, I have signed my name on the date indicated.

Dated: November 19, 2020



Jonathan Perlin

COMBINED ASSIGNMENT AND DECLARATION OF PATENT APPLICATION

Title of Invention: **SYSTEM AND METHOD FOR MULTI-TIER
RESOURCE AND SUBSYSTEM
ORCHESTRATION AND ADAPTATION**

Application No. **16/883,765**, filed on **May 26, 2020**

ASSIGNMENT

WHEREAS, I, **Mitchel Davis**, of **Nashville, TN**, am an original inventor or joint inventor of the invention disclosed in the above-identified application for a United States Letters Patent, hereinafter referred to as "Inventor";

WHEREAS, **C/HCA, Inc.**, a corporation of the State of Delaware having a principle place of business at 2555 Park Plaza, Building 4, Third Floor, Nashville, Tennessee 37203, hereinafter referred to as "**C/HCA, Inc.**," is desirous of acquiring an interest in the invention and application and in any United States Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration to the inventor, the receipt of which is hereby acknowledged, I have assigned, and by these presents do assign to **C/HCA, Inc.** all right, title, and interest in and to the invention and application and to all foreign counterparts (including patent, utility model, and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title, and interest is to be held and enjoyed by **C/HCA, Inc.** and **C/HCA, Inc.**'s successors and assigns as fully and exclusively as it would have been held and enjoyed by me had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation, or extension thereof.

I further agree that I will, without charge to me, but at **C/HCA, Inc.**'s expense, (a) cooperate with **C/HCA, Inc.** in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge, and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as **C/HCA, Inc.** lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in **C/HCA, Inc.**, or **C/HCA, Inc.**'s successors and assigns. I waive any obligation of **C/HCA, Inc.** to file foreign counterparts on the invention or continue pursuit of prosecution of the invention and application and to all foreign counterparts, **C/HCA, Inc.** can in its sole discretion choose which countries to file foreign counterparts, unless I have previously informed **C/HCA, Inc.** in writing of any foreign counterparts I would like the option to pursue or prosecute.

I hereby authorize and request Kilpatrick Townsend & Stockton LLP, Two Embarcadero Center, Suite 1900, San Francisco, CA 94111, to insert herein above an application number and filing date, when known, of any United States, International or foreign patent application that corresponds to the Application or is directed to any of the Invention(s).

DECLARATION

As the above named Inventor, I hereby declare that:

- This declaration is directed to the application listed above and any applications related by priority that may include claims or claim elements supported in the application listed above.
- The above-identified application was made or authorized to be made by me.
- I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
- I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than 5 years, or both.

IN TESTIMONY of both the Assignment and Declaration, I have signed my name on the date indicated.

Dated: 12/18/2020

Mitchel Davis

Mitchel Davis

COMBINED ASSIGNMENT AND DECLARATION OF PATENT APPLICATION

Title of Invention: **SYSTEM AND METHOD FOR MULTI-TIER
RESOURCE AND SUBSYSTEM
ORCHESTRATION AND ADAPTATION**

Application No. **16/883,765**, filed on **May 26, 2020**

ASSIGNMENT

WHEREAS, I, **Jody Miller**, of **Whitefish, MT**, am an original inventor or joint inventor of the invention disclosed in the above-identified application for a United States Letters Patent, hereinafter referred to as "Inventor";

WHEREAS, C/HCA, Inc., a corporation of the State of Delaware having a principle place of business at 2555 Park Plaza, Building 4, Third Floor, Nashville, Tennessee 37203, hereinafter referred to as "C/HCA, Inc.," is desirous of acquiring an interest in the invention and application and in any United States Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration to the inventor, the receipt of which is hereby acknowledged, I have assigned, and by these presents do assign to C/HCA, Inc. all right, title, and interest in and to the invention and application and to all foreign counterparts (including patent, utility model, and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title, and interest is to be held and enjoyed by C/HCA, Inc. and C/HCA, Inc.'s successors and assigns as fully and exclusively as it would have been held and enjoyed by me had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation, or extension thereof.

I further agree that I will, without charge to me, but at C/HCA, Inc.'s expense, (a) cooperate with C/HCA, Inc. in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge, and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as C/HCA, Inc. lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in C/HCA, Inc., or C/HCA, Inc.'s successors and assigns. I waive any obligation of C/HCA, Inc. to file foreign counterparts on the invention or continue pursuit of prosecution of the invention and application and to all foreign counterparts, C/HCA, Inc. can in its sole discretion choose which countries to file foreign counterparts, unless I have previously informed C/HCA, Inc. in writing of any foreign counterparts I would like the option to pursue or prosecute.

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filing date, when known, of any United States, International or foreign patent application that corresponds to the Application or is directed to any of the Invention(s).

DECLARATION

As the above named Inventor, I hereby declare that:

- This declaration is directed to the application listed above and any applications related by priority that may include claims or claim elements supported in the application listed above.
- The above-identified application was made or authorized to be made by me.
- I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
- I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than 5 years, or both.

IN TESTIMONY of both the Assignment and Declaration, I have signed my name on the date indicated.

Dated: 12/18/2020

Jody W. Miller
Jody Miller

COMBINED ASSIGNMENT AND DECLARATION OF PATENT APPLICATION

Title of Invention: **SYSTEM AND METHOD FOR MULTI-TIER
RESOURCE AND SUBSYSTEM
ORCHESTRATION AND ADAPTATION**

Application No. **16/883,765**, filed on **May 26, 2020**

ASSIGNMENT

WHEREAS, I, **Leslie Werhane**, of **Spring Hill, TN**, am an original inventor or joint inventor of the invention disclosed in the above-identified application for a United States Letters Patent, hereinafter referred to as "Inventor";

WHEREAS, **C/HCA, Inc.**, a corporation of the State of Delaware having a principle place of business at **2555 Park Plaza, Building 4, Third Floor, Nashville, Tennessee 37203**, hereinafter referred to as "**C/HCA, Inc.**," is desirous of acquiring an interest in the invention and application and in any United States Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration to the inventor, the receipt of which is hereby acknowledged, I have assigned, and by these presents do assign to **C/HCA, Inc.** all right, title, and interest in and to the invention and application and to all foreign counterparts (including patent, utility model, and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title, and interest is to be held and enjoyed by **C/HCA, Inc.** and **C/HCA, Inc.**'s successors and assigns as fully and exclusively as it would have been held and enjoyed by me had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation, or extension thereof.

I further agree that I will, without charge to me, but at **C/HCA, Inc.**'s expense, (a) cooperate with **C/HCA, Inc.** in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge, and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as **C/HCA, Inc.** lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in **C/HCA, Inc.**, or **C/HCA, Inc.**'s successors and assigns. I waive any obligation of **C/HCA, Inc.** to file foreign counterparts on the invention or continue pursuit of prosecution of the invention and application and to all foreign counterparts, **C/HCA, Inc.** can in its sole discretion choose which countries to file foreign counterparts, unless I have previously informed **C/HCA, Inc.** in writing of any foreign counterparts I would like the option to pursue or prosecute.

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filing date, when known, of any United States, International or foreign patent application that corresponds to the Application or is directed to any of the Invention(s).

DECLARATION

As the above named Inventor, I hereby declare that:

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- The above-identified application was made or authorized to be made by me.
- I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
- I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than 5 years, or both.

IN TESTIMONY of both the Assignment and Declaration, I have signed my name on the date indicated.

Dated:

12/18/2020



Leslie Werhane

COMBINED ASSIGNMENT AND DECLARATION OF PATENT APPLICATION

Title of Invention: **SYSTEM AND METHOD FOR MULTI-TIER
RESOURCE AND SUBSYSTEM
ORCHESTRATION AND ADAPTATION**

Application No. **16/883,765**, filed on **May 26, 2020**

ASSIGNMENT

WHEREAS, I, **Whitney Staub-Juergens**, of **Nashville, TN**, am an original inventor or joint inventor of the invention disclosed in the above-identified application for a United States Letters Patent, hereinafter referred to as "Inventor";

WHEREAS, C/HCA, Inc., a corporation of the State of Delaware having a principle place of business at 2555 Park Plaza, Building 4, Third Floor, Nashville, Tennessee 37203, hereinafter referred to as "C/HCA, Inc.," is desirous of acquiring an interest in the invention and application and in any United States Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration to the inventor, the receipt of which is hereby acknowledged, I have assigned, and by these presents do assign to C/HCA, Inc. all right, title, and interest in and to the invention and application and to all foreign counterparts (including patent, utility model, and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title, and interest is to be held and enjoyed by C/HCA, Inc. and C/HCA, Inc.'s successors and assigns as fully and exclusively as it would have been held and enjoyed by me had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation, or extension thereof.

I further agree that I will, without charge to me, but at C/HCA, Inc.'s expense, (a) cooperate with C/HCA, Inc. in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge, and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as C/HCA, Inc. lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in C/HCA, Inc., or C/HCA, Inc.'s successors and assigns. I waive any obligation of C/HCA, Inc. to file foreign counterparts on the invention or continue pursuit of prosecution of the invention and application and to all foreign counterparts, C/HCA, Inc. can in its sole discretion choose which countries to file foreign counterparts, unless I have previously informed C/HCA, Inc. in writing of any foreign counterparts I would like the option to pursue or prosecute.

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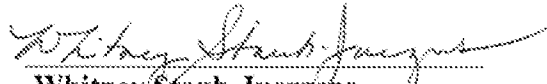
DECLARATION

As the above named Inventor, I hereby declare that:

- This declaration is directed to the application listed above and any applications related by priority that may include claims or claim elements supported in the application listed above.
- The above-identified application was made or authorized to be made by me.
- I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
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IN TESTIMONY of both the Assignment and Declaration, I have signed my name on the date indicated.

Dated: 12/18/2020


Whitney Staub-Juergens

COMBINED ASSIGNMENT AND DECLARATION OF PATENT APPLICATION

Title of Invention: **SYSTEM AND METHOD FOR MULTI-TIER
RESOURCE AND SUBSYSTEM
ORCHESTRATION AND ADAPTATION**

Application No. **16/883,765**, filed on **May 26, 2020**

ASSIGNMENT

WHEREAS, I, **Tabatha Cooper**, of **Hendersonville, TN**, am an original inventor or joint inventor of the invention disclosed in the above-identified application for a United States Letters Patent, hereinafter referred to as "Inventor";

WHEREAS, C/HCA, Inc., a corporation of the State of Delaware having a principle place of business at 2555 Park Plaza, Building 4, Third Floor, Nashville, Tennessee 37203, hereinafter referred to as "C/HCA, Inc.," is desirous of acquiring an interest in the invention and application and in any United States Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration to the inventor, the receipt of which is hereby acknowledged, I have assigned, and by these presents do assign to C/HCA, Inc. all right, title, and interest in and to the invention and application and to all foreign counterparts (including patent, utility model, and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title, and interest is to be held and enjoyed by C/HCA, Inc. and C/HCA, Inc.'s successors and assigns as fully and exclusively as it would have been held and enjoyed by me had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation, or extension thereof.

I further agree that I will, without charge to me, but at C/HCA, Inc.'s expense, (a) cooperate with C/HCA, Inc. in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge, and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as C/HCA, Inc. lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in C/HCA, Inc., or C/HCA, Inc.'s successors and assigns. I waive any obligation of C/HCA, Inc. to file foreign counterparts on the invention or continue pursuit of prosecution of the invention and application and to all foreign counterparts, C/HCA, Inc. can in its sole discretion choose which countries to file foreign counterparts, unless I have previously informed C/HCA, Inc. in writing of any foreign counterparts I would like the option to pursue or prosecute.

I hereby authorize and request Kilpatrick Townsend & Stockton LLP, Two Embarcadero Center, Suite 1900, San Francisco, CA 94111, to insert herein above an application number and

filing date, when known, of any United States, International or foreign patent application that corresponds to the Application or is directed to any of the Invention(s).

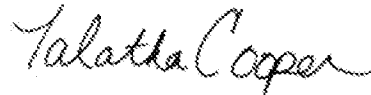
DECLARATION

As the above named Inventor, I hereby declare that:

- This declaration is directed to the application listed above and any applications related by priority that may include claims or claim elements supported in the application listed above.
- The above-identified application was made or authorized to be made by me.
- I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
- I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than 5 years, or both.

IN TESTIMONY of both the Assignment and Declaration, I have signed my name on the date indicated.

Dated: Nov. 17, 2020



Tabatha Cooper

COMBINED ASSIGNMENT AND DECLARATION OF PATENT APPLICATION

Title of Invention: **SYSTEM AND METHOD FOR MULTI-TIER
RESOURCE AND SUBSYSTEM
ORCHESTRATION AND ADAPTATION**

Application No. 16/883,765, filed on May 26, 2020

ASSIGNMENT

WHEREAS, I, **Stephanie Fulbright**, of Nashville, TN, am an original inventor or joint inventor of the invention disclosed in the above-identified application for a United States Letters Patent, hereinafter referred to as "Inventor";

WHEREAS, C/HCA, Inc., a corporation of the State of Delaware having a principle place of business at 2555 Park Plaza, Building 4, Third Floor, Nashville, Tennessee 37203, hereinafter referred to as "C/HCA, Inc.," is desirous of acquiring an interest in the invention and application and in any United States Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration to the inventor, the receipt of which is hereby acknowledged, I have assigned, and by these presents do assign to C/HCA, Inc. all right, title, and interest in and to the invention and application and to all foreign counterparts (including patent, utility model, and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title, and interest is to be held and enjoyed by C/HCA, Inc. and C/HCA, Inc.'s successors and assigns as fully and exclusively as it would have been held and enjoyed by me had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation, or extension thereof.

I further agree that I will, without charge to me, but at C/HCA, Inc.'s expense, (a) cooperate with C/HCA, Inc. in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge, and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as C/HCA, Inc. lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in C/HCA, Inc., or C/HCA, Inc.'s successors and assigns. I waive any obligation of C/HCA, Inc. to file foreign counterparts on the invention or continue pursuit of prosecution of the invention and application and to all foreign counterparts, C/HCA, Inc. can in its sole discretion choose which countries to file foreign counterparts, unless I have previously informed C/HCA, Inc. in writing of any foreign counterparts I would like the option to pursue or prosecute.

I hereby authorize and request Kilpatrick Townsend & Stockton LLP, Two Embarcadero Center, Suite 1900, San Francisco, CA 94111, to insert herein above an application number and

filing date, when known, of any United States, International or foreign patent application that corresponds to the Application or is directed to any of the Invention(s).

DECLARATION

As the above named Inventor, I hereby declare that:

- This declaration is directed to the application listed above and any applications related by priority that may include claims or claim elements supported in the application listed above.
- The above-identified application was made or authorized to be made by me.
- I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
- I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than 5 years, or both.

IN TESTIMONY of both the Assignment and Declaration, I have signed my name on the date indicated.

Dated: Oct. 15, 2021


Stephanie Fulbright

COMBINED ASSIGNMENT AND DECLARATION OF PATENT APPLICATION

Title of Invention: **SYSTEM AND METHOD FOR MULTI-TIER
RESOURCE AND SUBSYSTEM
ORCHESTRATION AND ADAPTATION**

Application No. **16/883,765**, filed on **May 26, 2020**

ASSIGNMENT

WHEREAS, I, **Willie Ford**, of **Nashville, TN**, am an original inventor or joint inventor of the invention disclosed in the above-identified application for a United States Letters Patent, hereinafter referred to as "Inventor";

WHEREAS, C/HCA, Inc., a corporation of the State of Delaware having a principle place of business at 2555 Park Plaza, Building 4, Third Floor, Nashville, Tennessee 37203, hereinafter referred to as "C/HCA, Inc.," is desirous of acquiring an interest in the invention and application and in any United States Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration to the inventor, the receipt of which is hereby acknowledged, I have assigned, and by these presents do assign to C/HCA, Inc. all right, title, and interest in and to the invention and application and to all foreign counterparts (including patent, utility model, and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title, and interest is to be held and enjoyed by C/HCA, Inc. and C/HCA, Inc.'s successors and assigns as fully and exclusively as it would have been held and enjoyed by me had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation, or extension thereof.

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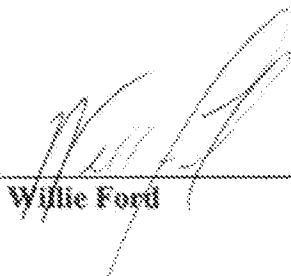
DECLARATION

As the above named Inventor, I hereby declare that:

- This declaration is directed to the application listed above and any applications related by priority that may include claims or claim elements supported in the application listed above.
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- I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
- I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than 5 years, or both.

IN TESTIMONY of both the Assignment and Declaration, I have signed my name on the date indicated.

Dated: 12/17/2020



Willie Ford

COMBINED ASSIGNMENT AND DECLARATION OF PATENT APPLICATION

Title of Invention: **SYSTEM AND METHOD FOR MULTI-TIER
RESOURCE AND SUBSYSTEM
ORCHESTRATION AND ADAPTATION**

Application No. **16/883,765**, filed on **May 26, 2020**

ASSIGNMENT

WHEREAS, I, **Amit Chaudhri**, of **Nashville, TN**, am an original inventor or joint inventor of the invention disclosed in the above-identified application for a United States Letters Patent, hereinafter referred to as "Inventor";

WHEREAS, C/HCA, Inc., a corporation of the State of Delaware having a principle place of business at 2555 Park Plaza, Building 4, Third Floor, Nashville, Tennessee 37203, hereinafter referred to as "C/HCA, Inc.," is desirous of acquiring an interest in the invention and application and in any United States Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration to the inventor, the receipt of which is hereby acknowledged, I have assigned, and by these presents do assign to C/HCA, Inc. all right, title, and interest in and to the invention and application and to all foreign counterparts (including patent, utility model, and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title, and interest is to be held and enjoyed by C/HCA, Inc. and C/HCA, Inc.'s successors and assigns as fully and exclusively as it would have been held and enjoyed by me had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation, or extension thereof.

I further agree that I will, without charge to me, but at C/HCA, Inc.'s expense, (a) cooperate with C/HCA, Inc. in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge, and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as C/HCA, Inc. lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in C/HCA, Inc., or C/HCA, Inc.'s successors and assigns. I waive any obligation of C/HCA, Inc. to file foreign counterparts on the invention or continue pursuit of prosecution of the invention and application and to all foreign counterparts, C/HCA, Inc. can in its sole discretion choose which countries to file foreign counterparts, unless I have previously informed C/HCA, Inc. in writing of any foreign counterparts I would like the option to pursue or prosecute.

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DECLARATION

As the above named Inventor, I hereby declare that:

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IN TESTIMONY of both the Assignment and Declaration, I have signed my name on the date indicated.

Dated: th18 Dec 2020


Amit Chaudhri

COMBINED ASSIGNMENT AND DECLARATION OF PATENT APPLICATION

Title of Invention: **SYSTEM AND METHOD FOR MULTI-TIER
RESOURCE AND SUBSYSTEM
ORCHESTRATION AND ADAPTATION**

Application No. **16/883,765**, filed on **May 26, 2020**

ASSIGNMENT

WHEREAS, I, **Eric Matt**, of **Aurora, CO**, am an original inventor or joint inventor of the invention disclosed in the above-identified application for a United States Letters Patent, hereinafter referred to as "Inventor";

WHEREAS, **C/HCA, Inc.**, a corporation of the State of Delaware having a principle place of business at 2555 Park Plaza, Building 4, Third Floor, Nashville, Tennessee 37203, hereinafter referred to as "**C/HCA, Inc.**," is desirous of acquiring an interest in the invention and application and in any United States Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration to the inventor, the receipt of which is hereby acknowledged, I have assigned, and by these presents do assign to **C/HCA, Inc.** all right, title, and interest in and to the invention and application and to all foreign counterparts (including patent, utility model, and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title, and interest is to be held and enjoyed by **C/HCA, Inc.** and **C/HCA, Inc.**'s successors and assigns as fully and exclusively as it would have been held and enjoyed by me had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation, or extension thereof.

I further agree that I will, without charge to me, but at **C/HCA, Inc.**'s expense, (a) cooperate with **C/HCA, Inc.** in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge, and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as **C/HCA, Inc.** lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in **C/HCA, Inc.**, or **C/HCA, Inc.**'s successors and assigns. I waive any obligation of **C/HCA, Inc.** to file foreign counterparts on the invention or continue pursuit of prosecution of the invention and application and to all foreign counterparts, **C/HCA, Inc.** can in its sole discretion choose which countries to file foreign counterparts, unless I have previously informed **C/HCA, Inc.** in writing of any foreign counterparts I would like the option to pursue or prosecute.

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DECLARATION

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IN TESTIMONY of both the Assignment and Declaration, I have signed my name on the date indicated.

Dated: 12/17/20


Eric Matt

COMBINED ASSIGNMENT AND DECLARATION OF PATENT APPLICATION

Title of Invention: **SYSTEM AND METHOD FOR MULTI-TIER
RESOURCE AND SUBSYSTEM
ORCHESTRATION AND ADAPTATION**

Application No. **16/883,765**, filed on **May 26, 2020**

ASSIGNMENT

WHEREAS, I, **Jeffrey Cuthbert**, of **Littleton, CO**, am an original inventor or joint inventor of the invention disclosed in the above-identified application for a United States Letters Patent, hereinafter referred to as "Inventor";

WHEREAS, **C/HCA, Inc.**, a corporation of the State of Delaware having a principle place of business at **2555 Park Plaza, Building 4, Third Floor, Nashville, Tennessee 37203**, hereinafter referred to as "**C/HCA, Inc.**," is desirous of acquiring an interest in the invention and application and in any United States Letters Patent and Registrations which may be granted on the same;

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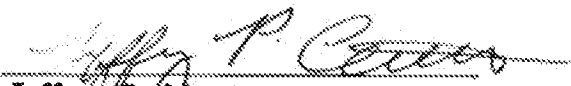
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Dated: 12/16/2020


Jeffrey Cuthbert