PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6606310

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CLOUDMINDS (SHENZHEN) ROBOTICS SYSTEMS CO., LTD.	03/02/2021

RECEIVING PARTY DATA

Name:	CLOUDMINDS ROBOTICS CO., LTD.
Street Address:	NO. 1508 KUNYANG ROAD
Internal Address:	2ND FLOOR, BUILDING 2
City:	MINHANG DISTRICT, SHANGHAI
State/Country:	CHINA
Postal Code:	201100

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16747290

CORRESPONDENCE DATA

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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.

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ATTORNEY DOCKET NUMBER:	CU-74521 RJS/MB
NAME OF SUBMITTER:	RICHARD J. STREIT
SIGNATURE:	/Richard J. Streit/
DATE SIGNED:	03/17/2021

Total Attachments: 3
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Docket CU-73368, CU-73453, CU-74437, CU-74473, CU-74506, CU-74525, CU-74517, CU-74515, CU-74516, CU-74528, CU-74522, CU-74521, CU-74523, CU-74524, CU-74726, CU-74710, CU-74736, CU-73909, CU-74652, CU-74751, CU-74178, CU-74172, CU-74180, CU-74179

U.S. rights

UNITED STATES OF AMERICA
ASSIGNMENT

In consideration of the payment of ASSIGNEE to ASSIGNOR of the sum of One Dollar ($1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

CLOUDMINDS (SHENZHEN) ROBOTICS SYSTEMS CO., LTD.

Room 201, Block A, No. 1, Qianwan Road 1, QianhaishenPort Cooperative District, Shenzhen, Guangdong, 518000, China

hereby sells, assigns and transfers to

ASSIGNEE:

CLOUDMINDS ROBOTICS CO., LTD.

2nd Floor, Building 2, No. 1508 Kunyang Road, Minhang District, ShangHai, 201100, China

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions, and in all foreign countries, including all rights to claim priority, in and to, any and all improvements which are disclosed in the following U.S. applications:

1. U.S. Serial No. 15/658,772 filed 07-25-2017, now U.S. Patent No. 9,994,329 issued 06-12-2018 entitled METHOD AND APPARATUS FOR CONTROLLING AIRCRAFT

2. U.S. Serial No. 15/722,731 filed 10-02-2017, now U.S. Patent No. 9,949,887 issued 04-24-2018 entitled METHOD, DEVICE AND HELMET FOR GUIDING THE BLIND

3. U.S. Serial No. 16/576,234 filed 09-19-2019 entitled IMAGE ANNOTATING METHOD AND ELECTRONIC DEVICE

4. U.S. Serial No. 16/668,647 filed 10-30-2019 entitled

METHOD FOR CONTROLLING ROBOT AND ROBOT DEVICE

5. U.S. Serial No. 16/678,267 filed 11-08-2019 entitled
METHOD FOR WAKING UP ROBOT AND ROBOT THEREOF

6. U.S. Serial No. 16/679,692 filed 11-11-2019 entitled
ARTICLE SEARCHING METHOD AND ROBOT THEREOF

7. U.S. Serial No. 16/728,325 filed 12-27-2019 entitled
METHOD FOR TESTING SOFTWARE, AND COMPUTING DEVICE AND COMPUTER-READABLE STORAGE MEDIUM THEREOF

8. U.S. Serial No. 16/730,361 filed 12-30-2019 entitled
METHOD FOR CALCULATING AN ARM ANGLE RANGE OF A ROBOT ARM, COMPUTING DEVICE AND ROBOT

9. U.S. Serial No. 16/730,575 filed 12-30-2019 entitled
MOTION PLANNING METHOD FOR ROBOT ARMS, COMPUTING DEVICE AND ROBOT

10. U.S. Serial No. 16/738,804 filed 01-09-2020 entitled
METHOD AND APPARATUS FOR TRAINING AN OBJECT IDENTIFICATION NEURAL NETWORK, AND COMPUTER DEVICE

11. U.S. Serial No. 16/741,326 filed 01-13-2020 entitled
ROBOT CHARACTER SETTING METHOD AND ROBOT

12. U.S. Serial No. 16/747,290 filed 01-20-2020 entitled
ROBOT ROLE SWITCHING METHOD AND ROBOT

13. U.S. Serial No. 16/750,355 filed 01-23-2020 entitled
METHOD FOR GENERATING TRAINING DATA, IMAGE SEMANTIC SEGMENTATION METHOD AND ELECTRONIC DEVICE

14. U.S. Serial No. 16/751,879 filed 01-24-2020 entitled
METHOD, APPARATUS AND SYSTEM FOR CONTROLLING SMART DEVICE

15. U.S. Serial No. 16/808,766 filed 03-04-2020 entitled
BINOCULAR BRIGHTNESS SENSITIVITY MEASUREMENT METHOD BASED ON WEARABLE DISPLAY DEVICE, DEVICE AND MOBILE TERMINAL

16. U.S. Serial No. 16/809,194 filed 03-04-2020 entitled
PANUM'S AREA MEASUREMENT METHOD, APPARATUS, AND WEARABLE DISPLAY DEVICE

17. U.S. Serial No. 16/815,840 filed 03-11-2020 entitled
DYNAMIC LEARNING METHOD AND SYSTEM FOR ROBOT, ROBOT AND CLOUD SERVER

18. U.S. Serial No. 17/032,399 filed 09-25-2020 entitled

METHOD FOR DETECTING GRASPING POSITION OF ROBOT IN GRASPING OBJECT

19. U.S. Serial No. 16/783,476 filed 02-06-2020 entitled NETWORK PATH OPTIMIZATION METHOD AND SYSTEM

20. U.S. Serial No. 16/831,724 filed 03-26-2020 entitled ROUTE SELECTION METHOD AND APPARATUS BASED ON HYBRID RESOURCE, AND SERVER THEREOF

21. U.S. Serial No. 16/409,074 filed 05-10-2019, now U.S. Patent No. 10,917,452 issued 02-09-2021 entitled SPEECH CODING ADJUSTMENT METHOD IN VoLTE COMMUNICATION AND SERVING BASE STATION THEREOF

22. U.S. Serial No. 16/418,193 filed 05-21-2019, now U.S. Patent No. 10,812,552 issued 10-20-2020 entitled VOLTE COMMUNICATION METHOD AND BASE STATION THEREOF

23. U.S. Serial No. 16/420,735 filed 05-23-2019, now U.S. Patent No. 10,623,940 issued 04-14-2020 entitled TERMINAL MOBILITY MANAGEMENT METHOD AND NETWORK DEVICE

24. U.S. Serial No. 16/460,392 filed 07-02-2019 entitled TERMINAL ACCESS METHOD AND NETWORK DEVICE

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/we have set our hand and seal

_____2021. 3. 2_____
Date

_____黄晓庆_____
By
President of CLOUDMINDS (SHENZHEN) ROBOTICS SYSTEMS CO., LTD.