

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	VOLVO CONSTRUCTION EQUIPMENT AB	04/11/2022
RECEIVING PARTY DATA		
Name:	VOLVO AUTONOMOUS SOLUTIONS AB	
Street Address:	N/A	
City:	GOTHENBURG	
State/Country:	SWEDEN	
PROPERTY NUMBERS Total: 4		
	Property Type	Number
	Patent Number:	D826992
	Patent Number:	D827675
	Patent Number:	D827676
	Application Number:	17571885
CORRESPONDENCE DATA		
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<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>		
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ATTORNEY DOCKET NUMBER:	033723	
NAME OF SUBMITTER:	NORA O. DICKERT, SECRETARY	
SIGNATURE:	/Nora O. Dickert/	
DATE SIGNED:	09/25/2023	
Total Attachments: 4		
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IP TRANSFER AGREEMENT

THIS IP TRANSFER AGREEMENT (this "Agreement") effective as of 11 April 2022, (the "Effective Date") is entered into by and between:

Volvo Construction Equipment AB, Corporate Registration Number, a corporation organized and existing under the laws of Sweden and having its corporate offices in Gothenburg, Sweden (hereinafter referred to as "VCE"),

and,

Volvo Autonomous Solutions AB, Corporate Registration Number 559285-4219, a corporation organized and existing under the laws of Sweden and having its corporate offices in Gothenburg, Sweden (hereinafter referred to as "VAS"),

jointly referred to as the "Parties".

WHEREAS, the Volvo Group is a provider of commercial transport solutions, providing such products as trucks, buses, construction equipment, engines and drive systems for boats and industrial applications. The Volvo Group also offers financial solutions and other services to its customers;

WHEREAS, VAS is engaged in the business of the sales, design and development of autonomous solutions;

WHEREAS, VCE and VAS are both companies in the Volvo Group and where VCE is the assignee of certain DESIGNS and PATENTS (as defined herein);

WHEREAS, VCE has decided to transfer certain intellectual property rights and know-how from VCE to VAS. This Agreement is entered into by the Parties as a consequence thereof;

NOW THEREFORE, the Parties agree as follows.

1. As of the Effective Date, VCE hereby perpetually and irrevocably, assigns, to VAS, VCE's entire right, title and interest in and to the registered patents, patent applications, designs and design applications set out in **Appendix A** (hereinafter collectively referred to as the "IP RIGHTS"), as well as any other patent or patent application being derived from the patents or patent applications listed in **Appendix A**.

2. VAS is entitled to modify, alter, adapt, grant licenses and transfer the IP RIGHTS in its own sole discretion and without restrictions.

3. To the extent VCE or another entity within the Volvo Group needs to use the IP RIGHTS such use will be regulated in separate agreements. Further, VAS acknowledges and accepts that VCE, or another entity within the Volvo Group, may have technical documentation, marketing material or the like containing the IP RIGHTS relating to and due to VCE being the previous owner of the IP RIGHTS. VAS will not object to nor take any action against VCE or the Volvo Group regarding the IP RIGHTS contained in such technical documentation, marketing material or the like.

4. In exchange for the transfer of the IP RIGHTS, VAS shall pay to VCE an one-time payment of 10 SEK per patent and design respectively.

5. No warranties, indemnities, representations or undertakings with regard to the

IF RIGHTS, VCE's rights or title thereto and/or VAS's or its possible licencees' use thereof are made under this Agreement.

6. This Agreement shall be construed in accordance with, and governed by, the laws of Sweden, excluding its conflict of law principles.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed by their duly authorized representatives below.

VOLVO CONSTRUCTION EQUIPMENT AB

**VOLVO AUTONOMOUS
SOLUTIONS AB**

Sign: *[Signature]*

Sign: *[Signature]*

Name: *Norbrand*

Name: *ROSETE M STONER*

Title: *Head of Legal*

Title: *CFO*

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APPENDIX A

DESIGNS:

HX02 (autonomous dumper)

Application Title	Country	Application Date	Application Number	Registration Date	Registration Number
HX02 - Autonomous dumper	European Union	2017-09-08	004246981-0001	2017-09-08	004246981-0001
HX02 - Autonomous dumper	European Union	2017-09-08	004246981-0003	2017-09-08	004246981-0003
HX02 - Autonomous dumper without wheel and mud guards	European Union	2017-09-08	004246981-0002	2017-09-08	004246981-0002
HX02 - Autonomous Dumper - Scale model	European Union	2017-09-08	004247518-0001	2017-09-08	004247518-0001
HX02 - Dumper Body - Scale model	European Union	2017-09-08	004247518-0003	2017-09-08	004247518-0003
HX02 - Autonomous dumper	United States of America	2017-09-08	29/616,726	2018-09-04	D827,675
HX02 - Autonomous dumper without wheel and mud guards	United States of America	2017-09-08	29/616,729	2018-09-04	D827,676
HX02 - Autonomous dumper without wheel and mud guards - Scale model	European Union	2017-09-08	004247518-0002	2017-09-08	004247518-0002
HX02 - Dumper Body	United States of America	2017-09-08	29/616,730	2018-08-28	D826,992
HX02 - Autonomous dumper	United Kingdom	2017-09-08	9004246981-0001	2017-09-08	90042469810-001
HX02 - Autonomous dumper	United Kingdom	2017-09-08	9004246981-0003	2017-09-08	90042469810-003
HX02 - Autonomous dumper without wheel and mud guards	United Kingdom	2017-09-08	9004246981-0002	2017-09-08	90042469810-002
HX02 - Autonomous Dumper - Scale model	United Kingdom	2017-09-08	9004247518-0001	2017-09-08	90042475180-001
HX02 - Dumper Body - Scale model	United Kingdom	2017-09-08	9004247518-0003	2017-09-08	90042475180-003
HX02 - Autonomous dumper without wheel and mud guards - Scale model	United Kingdom	2017-09-08	9004247518-0002	2017-09-08	90042475180-002

PATENTS:

Application Title	Country	Application Date	Application Number	Registration Date	Registration Number
A system for a collision prevention	Patent Cooperation Treaty	1/30/2020	PCT/EP2020/052297	Pending application	-
A method for operating an autonomous working machine	Patent Cooperation Treaty	2/7/2020	PCT/EP2020/053143	Pending application	-
MANAGEMENT UNIT FOR MANAGING MATERIAL DUMPING, SYSTEM, AUTONOMOUS DUMP MACHINE AND METHOD	Patent Cooperation Treaty	2/28/2020	PCT/EP2020/053260	Pending application	-
Optimized load cycles by smart and flexibel OBW indication	Patent Cooperation Treaty	31/1/2020	PCT/EP2020/052448	Pending application	-
A method of operating a fleet of autonomous vehicles	Patent Cooperation Treaty	28/2/2020	PCT/EP2019/085985	Pending application	-
File Area Scanning and digging point decision method for automated digging and dumping operation of the robotic excavator	Patent Cooperation Treaty	28/12/2020	PCT/KR2020/019175	Pending application	-
A SYSTEM AND METHOD THEREIN FOR REMOTE OPERATION OF A WORKING MACHINE COMPRISING A TOOL	European Patent	20/01/2021	21152505.0	Pending application	-
A SYSTEM AND METHOD THEREIN FOR REMOTE OPERATION OF A WORKING MACHINE COMPRISING A TOOL	China	07/01/2022	202210016907.1	Pending application	-
A SYSTEM AND METHOD THEREIN FOR REMOTE OPERATION OF A WORKING MACHINE COMPRISING A TOOL	USA	10/01/2022	17/571,885	Pending application	-

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