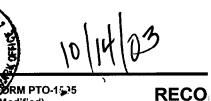
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10-20-2003



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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office Attorney Docket No. 16-281

To the Hannach Commission of Detects and Trademon	ker. Disease record the etteched evision I decrement/s) or some
	ks: Please record the attached original document(s) or copy preof.
I. Name of conveying party(ies): Bo Sun, Ruben Perfetti, John Martin B. Nature of conveyance: X Assignment Merger Security Agreement Change of Name Other: Execution Date: executed October 2, 2003	Name and address of receiving party(ies): Volvo Trucks North America, Inc. 7900 National Service Road Greensboro, NC 27402
I. Application number(s) or patent number(s): If this document is being filed together with a new app A. Patent Application No(s).: 19/178,359 filed March 24, 2003	plication, the execution date of the application is: B. Patent No(s).
Name and address of party to whom correspondence concerning document should be mailed: Kenneth J. Smith, Esq. WATTS, HOFFMANN CO., L.P.A. 1100 Superior Avenue, Ste. 1750 Cleveland, Ohio 44114-2518	6. Total number of applications and patents involved: 1 7. Total fee (37 C.F.R. §§ 1.21(h), 3.41): \$ 40.00 X Included with application. Authorized to be charged to deposit account. X The Commissioner is hereby authorized to credit any overpayment or to charge any fee deficiencies under 37 C.F.R. § 1.21(h) to our deposit account. 8. Deposit account number: 23-0630
DO NOT US	E THIS SPACE
true copy of the original document. Kenneth J. Smith (Reg. No. 45,115) Name of Person Signing Total number of pages including co	October 9, 2003 Signature October 9, 2003 Date over sheet, attachments, and document: 4 with required cover sheet information to: of Patents & Tradeharkby certify that this paper is being deposed SSIGNMENTS gton, D.C. 20231
	gton, D.C. 20231 Mail addressed to the Assistant Commission Patents, P.O. Box 1450, Alexandria

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PATENT

REEL: 014597 FRAME: 0087

ASSIGNMENT

IN CONSIDERATION of One Dollar and other good and valuable consideration, receipt of which is hereby acknowledged, I, Bo Sun, a citizen of United States of America, and residing at 3973 Cobblestone Bend Drive, High Point, North Carolina 27265, do hereby sell, transfer, set over and assign unto Volvo Trucks North America, Inc., a Delaware corporation with a principal place of business at 7900 National Service Road, Greensboro, North Carolina 27402, its successors, assigns, nominees, or other legal representatives, the entire right, title and interest in and to the invention entitled SIDE INTAKE GRILLE, invented by me and Ruben Perfetti and John Martin and the application for United States patent therefor, Serial No. 29/178,359, filed March 24, 2003 and all original and reissued patents granted therefor, and all divisions and continuations thereof, including the subjects-matter of any and all claims which may be obtained in every such patent, and the right to apply for and obtain patents in countries foreign to the United States, and in and to any Letters Patent which may be granted thereon in such foreign countries, and authorize and request the Commissioner of Patents of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue the said Letters Patent to the said Volvo Trucks North America, Inc., its successors, assigns, nominees or other legal representatives, as assignee and owner of the said entire interest, and covenant that I have full right to convey said entire interest herein assigned and that I have not executed and will not execute any agreement in conflict herewith, and agree that I will communicate to said Volvo Trucks North America, Inc., its successors, assigns, nominees or other legal representatives, all facts known to me respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, execute and deliver all divisional, continuing and reissue applications, make all rightful oaths and do all lawful acts requisite for the application for such divisional, continuing or reissue applications, or the procuring thereof, and that if and when said Volvo Trucks North America, Inc., its successors, assigns, nominees or other legal representatives desire to file a disclaimer relating thereto, I will upon request, sign and deliver all lawful papers requisite for the filing of such disclaimer, and I further covenant and agree that I will, at any time upon request, do everything legally possible to aid said Volvo Trucks North America, Inc., its successors, assigns, nominees or other legal representatives, either in its or my own name, to apply for, obtain and enforce proper patent protection in all countries, including priority rights granted to patents in foreign countries according to all the laws and treaties in force, all without further consideration but at the expense of said Volvo Trucks North America, Inc., its successors, assigns, nominees or other legal representatives.

Bo Sun

State of North Carolina

Cuilford)

County of Guilford

This 2 day of 2003, before me personally came the above-named Bo Sun to me personally known as the individual who executed the foregoing assignment, and who acknowledged to me that he executed the same of his own free will for the purpose therein set forth.

Notary Public



PATENT REEL: 014597 FRAME: 0088

ASSIGNMENT

IN CONSIDERATION of One Dollar and other good and valuable consideration, receipt of which is hereby acknowledged, I, Ruben Perfetti, a citizen of United States of America, and residing at 3312 Albemarle Road, Greensboro, North Carolina 27410, do hereby sell, transfer, set over and assign unto Volvo Trucks North America, Inc., a Delaware corporation with a principal place of business at 7900 National Service Road, Greensboro, North Carolina 27402, its successors, assigns, nominees, or other legal representatives, the entire right, title and interest in and to the invention entitled SIDE INTAKE GRILLE, invented by me and Bo Sun and John Martin and the application for United States patent therefor, Serial No. 29/178,359, filed March 24, 2003 and all original and reissued patents granted therefor, and all divisions and continuations thereof, including the subjects-matter of any and all claims which may be obtained in every such patent, and the right to apply for and obtain patents in countries foreign to the United States, and in and to any Letters Patent which may be granted thereon in such foreign countries, and authorize and request the Commissioner of Patents of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue the said Letters Patent to the said Volvo Trucks North America, Inc., its successors, assigns, nominees or other legal representatives, as assignee and owner of the said entire interest, and covenant that I have full right to convey said entire interest herein assigned and that I have not executed and will not execute any agreement in conflict herewith, and agree that I will communicate to said Volvo Trucks North America, Inc., its successors, assigns, nominees or other legal representatives, all facts known to me respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, execute and deliver all divisional, continuing and reissue applications, make all rightful oaths and do all lawful acts requisite for the application for such divisional, continuing or reissue applications, or the procuring thereof, and that if and when said Volvo Trucks North America, Inc., its successors, assigns, nominees or other legal representatives desire to file a disclaimer relating thereto, I will upon request, sign and deliver all lawful papers requisite for the filing of such disclaimer, and I further covenant and agree that I will, at any time upon request, do everything legally possible to aid said Volvo Trucks North America, Inc., its successors, assigns, nominees or other legal representatives, either in its or my own name, to apply for, obtain and enforce proper patent protection in all countries, including priority rights granted to patents in foreign countries according to all the laws and treaties in force, all without further consideration but at the expense of said Volvo Trucks North America, Inc., its successors, assigns, nominees or other legal representatives.

Ruben Perfetti

State of North Carolina

County of Guilford

, 2003, before me personally came the above-named Ruben Perfetti to me personally known as the individual who executed the foregoing assignment, and who acknowledged to me that he executed the same of his own free will for the purpose therein set forth.

Kinda W. allen Notary Public

GUILFORD COUNTY, NC My Commission Expires<u> 9 -10-</u>

> PATENT REEL: 014597 FRAME: 0089

ASSIGNMENT

IN CONSIDERATION of One Dollar and other good and valuable consideration, receipt of which is hereby acknowledged, I, John Marin a citizen of United States of America, and residing at 174 Forrest Drive, Madison, North Carolina 27025, do hereby sell, transfer, set over and assign unto Volvo Trucks North America, Inc., a <u>Delaware</u> corporation with a principal place of business at <u>7900 National</u> Service Road, Greensboro, North Carolina 27402, its successors, assigns, nominees, or other legal representatives, the entire right, title and interest in and to the invention entitled SIDE INTAKE GRILLE, invented by me and Bo Sun and Ruben Perfetti and the application for United States patent therefor, Serial No. 29/178,359, filed March 24, 2003 and all original and reissued patents granted therefor, and all divisions and continuations thereof, including the subjects-matter of any and all claims which may be obtained in every such patent, and the right to apply for and obtain patents in countries foreign to the United States, and in and to any Letters Patent which may be granted thereon in such foreign countries, and authorize and request the Commissioner of Patents of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue the said Letters Patent to the said Volvo Trucks North America, Inc., its successors, assigns, nominees or other legal representatives, as assignee and owner of the said entire interest, and covenant that I have full right to convey said entire interest herein assigned and that I have not executed and will not execute any agreement in conflict herewith, and agree that I will communicate to said Volvo Trucks North America, Inc., its successors, assigns, nominees or other legal representatives, all facts known to me respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, execute and deliver all divisional, continuing and reissue applications, make all rightful oaths and do all lawful acts requisite for the application for such divisional, continuing or reissue applications, or the procuring thereof, and that if and when said Volvo Trucks North America, Inc., its successors, assigns, nominees or other legal representatives desire to file a disclaimer relating thereto, I will upon request, sign and deliver all lawful papers requisite for the filing of such disclaimer, and I further covenant and agree that I will, at any time upon request, do everything legally possible to aid said Volvo Trucks North America, Inc., its successors, assigns, nominees or other legal representatives, either in its or my own name, to apply for, obtain and enforce proper patent protection in all countries, including priority rights granted to patents in foreign countries according to all the laws and treaties in force, all without further consideration but at the expense of said Volvo Trucks North America, Inc., its successors, assigns, nominees or other legal representatives.

John Martin

State of North Carolina

) SS

County of Guilford

This 2 day of UCF., 2003, before me personally came the above-named John Martin to me personally known as the individual who executed the foregoing assignment, and who acknowledged to me that he executed the same of his own free

will for the purpose therein set forth.

RECORDED: 10/14/2003

Notary Public

NOTARY PUBLIC OFFICIAL SEAL
LINDA W. ALLEN
GULFORD COUNTY, NC
My Commission Expires 4-10-2-206

PATENT REEL: 014597 FRAME: 0090