PATENT ASSIGNMENT

Electronic Version v07 Stylesheet Version v02

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT OF ASSIGNOR'S INTEREST

CONVEYING PARTY DATA

Name	Execution Date	
Johan Karl Henning Tollmen	2003-09-12	
Bengt Noren	2003-09-09	
Fredrik Hansson	2003-09-12	

RECEIVING PARTY DATA

Name	Street Address	Internal Address	City	State/Country	Postal Code
Volvo Car Corporation	S-405 31		Gothenburg	SWEDEN	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number	10605149

CORRESPONDENCE DATA

FAX NUMBER: 313-322-7162

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

When the customer number has been provided, the Office of Public Records will obtain the correspondence data from the

official record on file at the USPTO. CUSTOMER NUMBER: 028395

NAME OF PERSON SIGNING:	Frank A. Angileri
DATE SIGNED:	2004-01-07

Total Attachments: 3

source=asgninventvolvo1.tif source=asgninventvolvo2.tif source=asgninventvolvo3.tif

> PATENT REEL: 014238 FRAME: 0466

800009740

|C| 840,00 061510 10

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ASSIGNMENT

WHEREAS, THE UNDERSIGNED,

has/have invented certain new and useful improvements in:

Attorney Docket No. 201-1566 entitled: VEHICLE TORQUE RESOLUTION

for which I/we intend to make application for Letters Patent of the United States listing the following as inventors: Johan Karl Henning Tollmen, Bengt Noren, Fredrik Hansson, and

WHEREAS, VOLVO CAR CORPORATION, a corporation organized and existing by virtue of the laws of Sweden, having its principal place of business at S-405 31 Gothenburg, Sweden, is desirous of acquiring an interest therein;

NOW, THEREFORE, pursuant to my employment agreement heretofore made with VOLVO CAR CORPORATION, or by my contractual obligation, I do sell, assign and transfer unto VOLVO CAR CORPORATION the full and exclusive right for the United States of America and for all foreign countries to the said invention, as described in the specification executed by me on the date listed below, preparatory to obtaining Letters Patent of the United States therefor (and I hereby authorize my attorneys to insert the serial number and filing date herein: Serial No. 10/605,149 _____, Filing DateSeptember 11, 2003 and I hereby request the Commissioner of Patents and Trademarks to issue said Letters Patent to VOLVO CAR CORPORATION as the assignee. Executed by:

NAME	SIGNATURE	DATE
Johan Karl Henning Tollmen Norra Savviksvagen 17 423 53 Gothenburg SE Bengt Noren Snohojdsstigen 3 431 39 Molndal SE	John Toll.	09/12/03
Fredrik Hansson Vvre Mastrosgatan 6D 413 15 Gothenburg SE		

Hanze

Attorney Docket No: 201-1566 Please call 313-322-7762 if this paper becomes separated from the file.

PATENT REEL: 014238 FRAME: 0467

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ASSIGNMENT

WHEREAS, THE UNDERSIGNED,

has/have invented certain new and useful improvements in:

Attorney Docket No. 201-1566 entitled: VEHICLE TORQUE RESOLUTION

for which I/we intend to make application for Letters Patent of the United States listing the following as inventors: Johan Karl Henning Tollmen, Bengt Noren, Fredrik Hansson, and

WHEREAS, VOLVO CAR CORPORATION, a corporation organized and existing by virtue of the laws of Sweden, having its principal place of business at S-405 31 Gothenburg, Sweden, is desirous of acquiring an interest therein;

NOW, THEREFORE, pursuant to my employment agreement heretofore made with VOLVO CAR CORPORATION, or by my contractual obligation, I do sell, assign and transfer unto VOLVO CAR CORPORATION the full and exclusive right for the United States of America and for all foreign countries to the said invention, as described in the specification executed by me on the date listed below, preparatory to obtaining Letters Patent of the United States therefor (and I hereby authorize my attorneys to insert the serial number and filing date herein: Serial No. 10/605, 149, Filing Date September 11, 2003 and I hereby request the Commissioner of Patents and Trademarks to issue said Letters Patent to VOLVO CAR CORPORATION as the assignee. Executed by:

NAME	SIGNATURE	DATE
Johan Karl Henning Tollmen Verkmastaregatan 22 B 417 57 Gothenburg SE		
Bengt Noren Snohojdsstigen 3 431 39 Molndal SE	Benjellerin	9/9 2003
Fredrik Hansson Vvre Mastrosgatan 6D 413 15 Gothenburg SE		

Hanze

Attorney Docket No: 201-1566 Please call 313-322-7762 if this paper becomes separated from the file.

PATENT REEL: 014238 FRAME: 0468

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ASSIGNMENT

WHEREAS, THE UNDERSIGNED,

has/have invented certain new and useful improvements in:

Attorney Docket No. 201-1566 entitled: VEHICLE TORQUE RESOLUTION

for which I/we intend to make application for Letters Patent of the United States listing the following as inventors: Johan Karl Henning Tollmen, Bengt Noren, Fredrik Hansson, and

WHEREAS, VOLVO CAR CORPORATION, a corporation organized and existing by virtue of the laws of Sweden, having its principal place of business at S-405 31 Gothenburg, Sweden, is desirous of acquiring an interest therein;

NOW, THEREFORE, pursuant to my employment agreement heretofore made with VOLVO CAR CORPORATION, or by my contractual obligation, I do sell, assign and transfer unto VOLVO CAR CORPORATION the full and exclusive right for the United States of America and for all foreign countries to the said invention, as described in the specification executed by me on the date listed below, preparatory to obtaining Letters Patent of the United States therefor (and I hereby authorize my attorneys to insert the serial number and filing date herein:

Serial No. 10/605,149 , Filing Date September 11, 2003 and I hereby request the Commissioner of Patents and Trademarks to issue said Letters Patent to VOLVO CAR CORPORATION as the assignee. Executed by:

NAME	SIGNATURE	DATE
Johan Karl Henning Tollmen Verkmastaregatan 22 B 417 57 Gothenburg SE		
Bengt Noren Snohojdsstigen 3 431 39 Molndal SE		_
Fredrik Hansson Vvre Mastrosgatan 6D 413 15 Gothenburg SE	Friend Ke	- 0309 1Z

Hanze

RECORDED: 01/07/2004

Attorney Docket No: 201-1566 Please call 313-322-7762 if this paper becomes separated from the file.

PATENT REEL: 014238 FRAME: 0469