PATENT ASSIGNMENT

Electronic Version v07 Stylesheet Version v02

SUBMISSION TYPE:

NEW ASSIGNMENT

APPLICATION NUMBER
10/709728

NATURE OF CONVEYANCE:

ASSIGNMENT OF ASSIGNOR'S INTEREST

CONVEYING PARTY DATA

Name	Execution Date	
Hsiao-An Hsieh	2004-04-29	
Francois Charette	2004-04-28	
Steven Lake	2004-05-13	
Harish Maruvada	2004-04-28	
Mike Calkins	2004-04-30	
Alex Przebienda	2004-05-11	
David Volker	2004-04-30	

RECEIVING PARTY DATA

Name	Street Address	Internal Address	City	State/Country	Postal Code
Ford Motor Company	The American Road		Dearborn	MICHIGAN	48121

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: 2004-05-25

Total Attachments: 7

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PATENT REEL: 014652 FRAME: 0616

800012060

WHEREAS, THE UNDERSIGNED, has/have invented certain new and useful improvements in:

Attorney Docket No. 81096756 entitled: METHOD AND SYSTEM FOR ASSESSING A REFRIGERANT CHARGE LEVEL IN A VEHICLE AIR CONDITIONING SYSTEM

for which I/we intend to make application for Letters Patent of the United States listing the following as inventors: Hsiao-An Hsieh, Francois Charette. Steven Lake, Harish Maruvada, Mike Calkins, Alex Przebienda David Volker; and

WHEREAS, FORD MOTOR COMPANY, a corporation organized and existing by virtue of the laws of the State of Delaware, having its principal place of business at Dearborn, County of Wayne, and State of Michigan, is desirous of acquiring an interest therein;

full and exclusive described in the s of the United Stat herein: Serial No	THEREFORE, pursuant to my employment agreemen my contractual obligation, I do sell, assign and transferight for the United States of America and for all fore pecification executed by me on the date listed below, set therefor (and I hereby authorize my attorneys to in part of the pecification executed by me on the date listed below, set therefor (and I hereby authorize my attorneys to in part of the period	er unto FORD MOTOR COMPANY the eign countries to the said invention, as preparatory to obtaining Letters Patent nsert the serial number and filing date) and I hereby request the
Name: Home Address: City, State, Zip: Country:	Hsiao-An Hsieh 6729 Whiting Dr. Troy, MI 48098, United States of America	n_ Date: 4/29/04
Name: Home Address: City, State, Zip: Country:	Francois Charette 46324 Gainsborough Dr. Canton, MI 48187, United States of America	Date:
Name: Home Address: City, State, Zip: Country:	Steven Lake 1470 Aberdeen, Canton, MI 48187, United States of America	Date:
Name: Home Address: City, State, Zip: Country:	Harish Maruvada 430 Princeton St, Canton, MI 48188, United States of America	Date:
Name: Home Address: City, State, Zip: Country:	Mike Calkins 45095 Indian Creek Dr. Canton, MI 48187, United States of America	Date:
Name: Home Address: City, State, Zip: Country:	Alex Przebienda 18513 Clairmont Cr, Northville, MI 48167, United States of America	Date:
Name: Home Address: City, State, Zip: Country: Ray Coppiellie	David Volker 1617 Windingway Drive, Wixom, MI 48393, United States of America	Date:

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COMPANY, or by full and exclusive described in the of the United Sta	y my contractual obligation, e right for the United States specification executed by mates therefor (and I hereby a lo, f Patents and Trademarks to	my employment agreement heretofore made with FORD MOTOR I do sell, assign and transfer unto FORD MOTOR COMPANY the of America and for all foreign countries to the said invention, as e on the date listed below, preparatory to obtaining Letters Patent authorize my attorneys to insert the serial number and filing date Filing Date), and I hereby request the o issue said Letters Patent to FORD MOTOR COMPANY as the
		SIGNATURE:
Name:	Hsiao-An Hsieh	Date:
Home Address:		
City, State, Zip:	Troy, MI 48098,	
Country:	United States of America	
,		4
Name:	Francois Charette F	ranco's Chatelle Date: 04/28/2004
Home Address:		
City, State, Zip:		
Country:	United States of America	
Name:		Date:
Home Address:	1470 Aberdeen,	
City, State, Zip:		
Country:	United States of America	
Name:	Harich Marunada	Date:
Home Address:		Dale,
	Canton, MI 48188,	
Country:	United States of America	
Country.	Officed Otales of Afficia	
Name:	Mike Calkins	Date:
Home Address:	45095 Indian Creek Dr.	
City, State, Zip:	Canton, MI 48187,	
Country:	United States of America	
Name:	Alex Przebienda	Date:
Home Address:	18513 Clairmont Cr,	
City, State, Zip:	Northville, MI 48167	
Country:	United States of America	
Name:	David Volker	Date:
Home Address:	1617 Windingway Drive,	-2:4:
City, State, Zip:	Wixom, MI 48393,	
Country:	United States of America	
Ray Coppiellie	Third Otales of Africina	

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COMPANY, or by full and exclusive described in the s	THEREFORE, pursuant to my employment agreemy contractual obligation, I do sell, assign and right for the United States of America and for specification executed by me on the date listed the therefor (and I hereby authorize my attornet	transfer unto FORD MOTOR COMPANY the all foreign countries to the said invention, as below, preparatory to obtaining Letters Patent
herein: Serial No	p, Filing Date Patents and Trademarks to issue said Letters), and I hereby request the
-	SIGNATURE:	
Name:	Hsiao-An Hsieh	Date:
Home Address:	6729 Whiting Dr.	
City, State, Zip:	Troy, MI 48098,	
Country:	United States of America	
Name:	Francois Charette	Date:
Home Address:	46324 Gainsborough Dr.	
City, State, Zip:	Canton, MI 48187,	
Country:	United States of America	
Name:	Steven Lake	Date: 5/13/0-1
Home Address:	1470 Aberdoon, 20492 Pleusant Li	OKO Rd
City, State, Zip:	Canton MI 48187 Marchester MI	48158
Country:	United States of America	
Name:	Harish Maruvada	Date:
Home Address:	430 Princeton St,	
City, State, Zip:	Canton, MI 48188,	
Country:	United States of America	
Name:	Mike Calkins	Date:
Home Address:	45095 Indian Creek Dr.	
City, State, Zip:	Canton, MI 48187,	
Country:	United States of America	
Name:	Alex Przebienda	Date:
Home Address:	18513 Clairmont Cr,	
City, State, Zip:	Northville, MI 48167,	
Country:	United States of America	
Name:	David Volker	Date:
Home Address:	1617 Windingway Drive,	
City, State, Zip:	Wixom, MI 48393,	
Country:	United States of America	
Ray Coppiellie		

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NOW	THEREFORE nursuant to my employment ac	greement heretofore made with FORD MOTOR
COMPANY, or by	my contractual obligation. I do sell, assign and	d transfer unto FORD MOTOR COMPANY the
full and exclusive	right for the United States of America and fo	r all foreign countries to the said invention, as
described in the s	specification executed by me on the date listed	below, preparatory to obtaining Letters Patent
of the United Sta	tes therefor (and I hereby authorize my attorn	nevs to insert the serial number and filing date
herein: Serial No	o, Filing Date), and I hereby request the
Commissioner of	Patents and Trademarks to issue said Letter), and I hereby request the s Patent to FORD MOTOR COMPANY as the
assignee. Execu	ited by:	
	SIGNATURE:	
Name:	Hsiao-An Hsieh	Date:
Home Address:	6729 Whiting Dr,	
City, State, Zip:	Troy, Mi 48098,	
Country:	United States of America	
None	Espacia Charatta	Date:
Name: Home Address:	Francois Charette	Date.
City, State, Zip:	Canton, MI 48187,	
Country:	United States of America	
Courtery.		
Name:	Steven Lake	Date:
Home Address:	1470 Aberdeen,	
City, State, Zip:	Canton, MI 48187,	
Country:	United States of America	
Name:	Harish Maruvada . M. D. Muni	Date: 4/28/04
Home Address:	430 Princeton St.	
City, State, Zip:	Canton, MI 48188,	•
Country:	United States of America	
	1411 - 0 11 1	
Name:	Mike Calkins	Date:
Home Address: City, State, Zip:	45095 Indian Creek Dr, Canton, MI 48187,	
City, State, Zip. Country:	United States of America	
Courid y.	United States of Affenca	
Name:	Alex Przebienda	Date:
Home Address:	18513 Clairmont Cr,	
City, State, Zip:	Northville, Ml 48167,	
Country:	United States of America	
Name:	David Volker	Date:
Home Address:	1617 Windingway Drive,	
City, State, Zip:	Wixom, MI 48393,	
Country:	United States of America	
Ray Coppiellie		

Ray Coppiellie

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE **ASSIGNMENT**

WHEREAS, THE UNDERSIGNED, has/have invented certain new and useful improvements in:

Attorney Docket No. 81096756 entitled: METHOD AND SYSTEM FOR ASSESSING A REFRIGERANT CHARGE LEVEL IN A VEHICLE AIR CONDITIONING SYSTEM

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WHEREAS, FORD MOTOR COMPANY, a corporation organized and existing by virtue of the laws of the State of Delaware, having its principal place of business at Dearborn, County of Wayne, and State of Michigan, is desirous of acquiring an interest therein;

COMPANY, or by full and exclusive described in the s of the United Sta herein: Serial N	my contractual obligation, I right for the United States specification executed by metes therefor (and I hereby a o, large Patents and Trademarks to	do sell, assign and transfer u of America and for all foreign on the date listed below, pre outhorize my attorneys to inse Filing Date	eretofore made with FORD MOTOR nto FORD MOTOR COMPANY the countries to the said invention, as paratory to obtaining Letters Patent of the serial number and filing date), and I hereby request the FORD MOTOR COMPANY as the
		SIGNATURE:	
Name:	Hsiao-An Hsieh		Date:
Home Address:	6729 Whiting Dr,		_
City, State, Zip:	Troy, MI 48098,		
Country:	United States of America		
Name:	François Charette		Date:
Home Address:	46324 Gainsborough Dr,		
City, State, Zip:	Canton, MI 48187,		
Country:	United States of America		
Name:	Steven Lake	D	ate:
Home Address:	1470 Aberdeen,		
City, State, Zip:	Canton, MI 48187,		
Country:	United States of America		
Name:	Harish Maruvada		Date:
Home Address:	430 Princeton St,		
City, State, Zip:	Canton, MI 48188,		
Country:	United States of America	211	
Name:	Mike Calkins	1 di	Pate: 4/30/04
Home Address:	45095 Indian Oreck Dr.	19500 Chalk Dr.	
City, State, Zip:	-Canton, MI 48187,-	Vacomb Twp., MI	48044
Country:	United States of America		
Name:	Alex Przebienda		Date:
Home Address:	18513 Clairmont Cr.		
City, State, Zip:	Northville, MI 48167,		
Country:	United States of America		
Name:	David Volker		ate:
Home Address:	1617 Windingway Drive,		
City, State, Zip:	Wixom, MI 48393,		
Country:	United States of America		

PATENT REEL: 014652 FRAME: 0621

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NOW, THEREFORE, pursuant to my employment agreement heretofore made with FORD MOTOR

assignee. Execu	Patents and Trademarks to issue said Lated by:), and I hereby reque etters Patent to FORD MOTOR COMPANY
	SIGNATU	
Name:	Hsiao-An Hsieh	Date:
Home Address:	6729 Whiting Dr.	
City, State, Zip:	Troy, MI 48098,	
Country:	United States of America	
Name:	Francois Charette	Date:
Home Address:	46324 Gainsborough Dr.	
City, State, Zip:	Canton, MI 48187,	
Country:	United States of America	
Name:	Steven Lake	Data:
Home Address:	1470 Aberdeen,	Date.
City, State, Zip:	Canton, MI 48187.	
Country:	United States of America	
Name:	Harish Maruvada	Date:
Home Address:	430 Princeton St,	Date.
City, State, Zip:	Canton, MI 48188,	
Country:	United States of America	
Name:	Mike Calkins	Date:
Home Address:	45095 Indian Creek Dr.	Date
City, State, Zip:	Canton, MI 48187.	
Country:	United States of America	
Name:	Alex Przebienda	Date:
Home Address:	18513 Clairmont Cl	Date
City, State, Zip:	Northville, MI 48167.	
Country:	United States of America	
Name:	David Volker	Data
dome Address:	David Volker	Date:
City, State, Zip:	Wixom, MI 48393,	
Country:	United States of America	
y Coppiellie	Other Otales of Willeling	

PATENT REEL: 014652 FRAME: 0622

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	NOW	, THEREFORE, pursuant to my	employment agreemer	nt heretofore made with FORD MC	TOR
	COMPANY, or by	y my contractual obligation, I do	sell, assign and transfe	er unto FORD MOTOR COMPAN	Y the
	full and exclusive	right for the United States of A	America and for all for	eign countries to the said invention	n. as
	described in the	specification executed by me on	the date listed below.	preparatory to obtaining Letters P	atent
	of the United Sta	ites therefor (and I hereby auth	orize my attorneys to i	nsert the serial number and filing	date
	herein: Serial N	o. Filin	o Date) and I hereby reques	et the
	Commissioner of	Patents and Trademarks to iss	sue said Letters Paten	to FORD MOTOR COMPANY a	s the
	assignee. Execu	ited by:			
	Mana		SIGNATURE:		
	Name:	Hsiao-An Hsieh		Date:	
	Home Address:	6729 Whiting Dr,			
	City, State, Zip:	Troy, MI 48098,			
	Country:	United States of America			
	Name:	Eroposio Cherello			
	Home Address:	46324 Gainsborough Dr.		Date:	
	City, State, Zip:	Canton, MI 48187,			
	Country:	United States of America			
		S. Mod Castes of Afficial			
	Name:	Steven Lake	•	Date:	
	Home Address:	1470 Aberdeen,			
	City, State, Zip:	Canton, MI 48187,			
	Country:	United States of America			
	Name:	Harish Maruvada		Date:	
	Home Address:	430 Princeton St,			
	City, State, Zip: Country:	Canton, MI 48188,			
	Country.	United States of America			
	Name:	Mike Calkins		Date	
	Home Address:	45095 Indian Creek Dr.	· · · · · · · · · · · · · · · · · · ·		
	City, State, Zip:	Canton, MI 48187,			
	Country:	United States of America			
	Name:	Alex Przebienda		Date:	
	Home Address:	18513 Clairmont Cr,			
	City, State, Zip:	Northville, MI 48167,	`		
	Country:	United States of America	Min		
	Nome:	De santalis de la colo	ill \\ \! \! \!	1/2/	
	Name:	David Volker	u pecco-	Date: 4/30/2004	
	Home Address:	1617 Windingway Drive,	•	, ,	
	City, State, Zip:	Wixom, MI 48393,			
R	Country: Cay Coppiellie	United States of America			

PATENT RECORDED: 05/25/2004 REEL: 014652 FRAME: 0623