

1/10/5

01-12-2005

Form PTO-1595 (Rev. 09/04)  
OMB No. 0651-0027 (exp. 6/30/2005)U.S. DEPARTMENT OF COMMERCE  
States Patent and Trademark Office

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102918551

PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)/Execution Date(s):**Harley Kent Heinrich  
Christian Lenz Cesar

Execution Date(s) Dec. 1, 2004, Nov. 22, 2004

Additional name(s) of conveying party(ies) attached? ☒ Yes ☐ No**3. Nature of conveyance:**

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

**2. Name and address of receiving party(ies)**Name: L. David RishInternal Address: Intermec IP Corp.Street Address: 6001 36th Avenue WestCity: EverettState: WACountry: US Zip: 98203Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**

A. Patent Application No.(s)

10/898,888

☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: Jack ShermanInternal Address: c/o Legal Dept.Intermec Technologies CorporationStreet Address: 550 2nd Street SECity: Cedar RapidsState: IA Zip: 52401Phone Number: 319/369-3661Fax Number: 319/369-3630Email Address: john.sherman@intermec.com**6. Total number of applications and patents involved:**One**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_b. Deposit Account Number 14-1190Authorized User Name John H. Sherman**9. Signature:**John H. Sherman  
Signature

January 4, 2005

Date

John H. Sherman, Reg. 16,909

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

34

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

01/11/2005 ECOOPER 00000095 141190 10898888

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40.00 BA

PATENT  
REEL: 016170 FRAME: 0800

RECORDATION FORM COVER SHEET  
CONTINUATION  
PATENTS ONLY

Conveying Party(ies)

☐

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Execution Date  
Month Day Year

Name (line 1) Thomas A. Cofino

12/09/04

Execution Date  
Month Day Year

Name (line 1) Daniel J. Friedman

11/23/04

Execution Date  
Month Day Year

Name (line 1) Kenneth Alan Goldman

12/22/04

Execution Date  
Month Day Year

Name (line 1) Sharon Louise Greene

11/23/04

Execution Date  
Month Day Year

Name (line 1) Kevin P. McAuliffe

11/23/04

Execution Date  
Month Day Year

Name (line 1) Shun Shing Chan

11/24/04

**ASSIGNMENT**

Inventor and City	(1) Harley Kent Heinrich  and (2) Christian Lenz Cesar  and (3) Thomas A. Cofino  and (4) Daniel J. Friedman  and (5) Kenneth Alan Goldman  and (6) Sharon Louise Greene  and (7) Kevin P. McAuliffe  and (8) Shun Shing Chan	 of Everett and State of Washington  of Shrub Oak and State of New York  of Rye and State of New York  of Sleepy Hollow and State of New York  of Norwalk and State of Connecticut  of Mt. Kisco and State of New York  of Cortlandt Manor and State of New York  of Flushing and State of New York
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have invented certain improvements in

**TITLE      RADIO FREQUENCY IDENTIFICATION SYSTEM WITH WRITE BROADCAST CAPABILITY**

for which an application for a United States patent was filed on July 26, 2004, Application Number 10/898,888.

Whereas, INTERMEC IP CORP., a corporation of Delaware, having a place of business at Everett, Washington, desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to Intermec IP Corp., its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to Intermec IP Corp., its successors and assigns; and we hereby agree that Intermec IP Corp., may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by Intermec IP Corp.

CITY	Signed and sealed						
DATE	(1) at	on Dec. 1, 2004	<u>Harley</u>	<u>Kent</u>	<u>Heinrich</u>	SIGNATURE	INVENTOR
			FIRST NAME	MIDDLE NAME	LAST NAME		
CITY	Signed and sealed						
DATE	(2) at	on , 2004	<u>Christian</u>	<u>Lenz</u>	<u>Cesar</u>	SIGNATURE	INVENTOR
			FIRST NAME	MIDDLE NAME	LAST NAME		
CITY	Signed and sealed						
DATE	(3) at	on 2004	<u>Thomas</u>	<u>A.</u>	<u>Cofino</u>	SIGNATURE	INVENTOR
			FIRST NAME	MIDDLE INITIAL	LAST NAME		
CITY	Signed and sealed						
DATE	(4) at	on 2004	<u>Daniel</u>	<u>J.</u>	<u>Friedman</u>	SIGNATURE	INVENTOR
			FIRST NAME	MIDDLE INITIAL	LAST NAME		
CITY	Signed and sealed						
DATE	(5) at	on 2004	<u>Kenneth</u>	<u>Alan</u>	<u>Goldman</u>	SIGNATURE	INVENTOR
			FIRST NAME	MIDDLE NAME	LAST NAME		
CITY	Signed and sealed						
DATE	(6) at	on 2004	<u>Sharon</u>	<u>Louise</u>	<u>Greene</u>	SIGNATURE	INVENTOR
			FIRST NAME	MIDDLE NAME	LAST NAME		
CITY	Signed and sealed						
DATE	(7) at	on 2004	<u>Kevin</u>	<u>P.</u>	<u>McAuliffe</u>	SIGNATURE	INVENTOR
			FIRST NAME	MIDDLE INITIAL	LAST NAME		
CITY	Signed and sealed						
DATE	(8) at	on , 2004	<u>Shun</u>	<u>Shing</u>	<u>Chan</u>	SIGNATURE	INVENTOR
			FIRST NAME	MIDDLE NAME	LAST NAME		

State of Washington        ) ss.:  
County of                    )

INVENTOR        On this        day of                    2004 , before me personally came Harley Kent Heinrich, to  
(1)        me personally known, and known to me to be the person described in and who executed the foregoing  
assignment, and he acknowledged to me that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary

State of New York         ) ss.:  
County of                  )

INVENTOR        On this        day of                    , 200 , before me personally came Christian Lenz Cesar, to me  
(2)        personally known, and known to me to be the person described in and who executed the foregoing  
assignment, and he acknowledged to me that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary

State of New York         ) ss.:  
County of                  )

INVENTOR        On this        day of                    , 200 , before me personally came Thomas A. Cofino, to me  
(3)        personally known, and known to me to be the person described in and who executed the foregoing  
assignment, and he acknowledged to me that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary

State of New York         ) ss.:  
County of                  )

INVENTOR        On this        day of                    , 200 , before me personally came Daniel J. Friedman, to me  
(4)        personally known, and known to me to be the person described in and who executed the foregoing  
assignment, and he acknowledged to me that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary

State of Connecticut       ) ss.:  
County of                    )

INVENTOR        On this        day of                    , 200 , before me personally came Kenneth Alan Goldman,  
(5)        to me personally known, and known to me to be the person described in and who executed the foregoing  
assignment, and he acknowledged to me that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary

INVENTOR  
(6)

INVENTOR  
(7)

**INVENTOR**  
(8)

**PATENT**  
**REEL: 016170 FRAME: 0805**

**ASSIGNMENT**

Inventor and City	(1) Harley Kent Heinrich  and (2) Christian Lenz Cesar  and (3) Thomas A. Cofino  and (4) Daniel J. Friedman  and (5) Kenneth Alan Goldman  and (6) Sharon Louise Greene  and (7) Kevin P. McAuliffe  and (8) Shun Shing Chan	 of Everett and State of Washington  of Shrub Oak and State of New York  of Rye and State of New York  of Sleepy Hollow and State of New York  of Norwalk and State of Connecticut  of Mt. Kisco and State of New York  of Cortlandt Manor and State of New York  of Flushing and State of New York
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Signed and sealed  
 CITY (1) at  
 DATE on , 2004 (Harley Kent Heinrich)  
 FIRST NAME MIDDLE NAME LAST NAME SIGNATURE  
 INVENTOR

Signed and sealed  
 CITY (2) at  
 DATE on Nov 22, 2004 (Christian Lenz Cesar)  
 FIRST NAME MIDDLE NAME LAST NAME SIGNATURE  
 INVENTOR

Signed and sealed  
 CITY (3) at  
 DATE on 2004 (Thomas A. Cofino)  
 FIRST NAME MIDDLE INITIAL LAST NAME SIGNATURE  
 INVENTOR

Signed and sealed  
 CITY (4) at  
 DATE on 2004 (Daniel J. Friedman)  
 FIRST NAME MIDDLE INITIAL LAST NAME SIGNATURE  
 INVENTOR

Signed and sealed  
 CITY (5) at  
 DATE on 2004 (Kenneth Alan Goldman)  
 FIRST NAME MIDDLE NAME LAST NAME SIGNATURE  
 INVENTOR

Signed and sealed  
 CITY (6) at  
 DATE on 2004 (Sharon Louise Greene)  
 FIRST NAME MIDDLE NAME LAST NAME SIGNATURE  
 INVENTOR

Signed and sealed  
 CITY (7) at  
 DATE on 2004 (Kevin P. McAuliffe)  
 FIRST NAME MIDDLE INITIAL LAST NAME SIGNATURE  
 INVENTOR

Signed and sealed  
 CITY (8) at  
 DATE on , 2004 (Shun Shing Chan)  
 FIRST NAME MIDDLE NAME LAST NAME SIGNATURE  
 INVENTOR



State of Washington        ) ss.:  
County of                    )

INVENTOR        On this        day of                                2004 , before me personally came Harley Kent Heinrich, to  
(1)        me personally known, and known to me to be the person described in and who executed the foregoing  
assignment, and he acknowledged to me that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary

State of New York         ) ss.:  
County of                    )

INVENTOR        On this        day of                                , 200 , before me personally came Christian Lenz Cesar, to me  
(2)        personally known, and known to me to be the person described in and who executed the foregoing  
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\_\_\_\_\_  
Notary

State of New York         ) ss.:  
County of                    )

INVENTOR        On this        day of                                , 200 , before me personally came Thomas A. Cofino, to me  
(3)        personally known, and known to me to be the person described in and who executed the foregoing  
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\_\_\_\_\_  
Notary

State of New York         ) ss.:  
County of                    )

INVENTOR        On this        day of                                , 200 , before me personally came Daniel J. Friedman, to me  
(4)        personally known, and known to me to be the person described in and who executed the foregoing  
assignment, and he acknowledged to me that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary

State of Connecticut       ) ss.:  
County of                    )

INVENTOR        On this        day of                                , 200 , before me personally came Kenneth Alan Goldman,  
(5)        to me personally known, and known to me to be the person described in and who executed the foregoing  
assignment, and he acknowledged to me that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary



**ASSIGNMENT**

<b>Inventor and City</b>	(1) Harley Kent Heinrich  and (2) Christian Lenz Cesar  and (3) Thomas A. Cofino  and (4) Daniel J. Friedman  and (5) Kenneth Alan Goldman  and (6) Sharon Louise Greene  and (7) Kevin P. McAuliffe  and (8) Shun Shing Chan	of Everett and State of Washington  of Shrub Oak and State of New York  of Rye and State of New York  of Sleepy Hollow and State of New York  of Norwalk and State of Connecticut  of Mt. Kisco and State of New York  of Cortlandt Manor and State of New York  of Flushing and State of New York
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Signed and sealed

CITY	(1) at				SIGNATURE
DATE	on	, 2004	(Harley	Kent	Heinrich)
			FIRST NAME	MIDDLE NAME	LAST NAME
					INVENTOR

Signed and sealed

CITY	(2) at				SIGNATURE
DATE	on	, 2004	(Christian	Lenz	Cesar)
			FIRST NAME	MIDDLE NAME	LAST NAME
					INVENTOR

Signed and sealed

CITY	(3) at				SIGNATURE
DATE	on	12/19/04	2004	(Thomas	A.
				FIRST NAME	MIDDLE INITIAL
					LAST NAME
					INVENTOR

Signed and sealed

CITY	(4) at				SIGNATURE
DATE	on	2004	(Daniel	J.	Friedman)
			FIRST NAME	MIDDLE INITIAL	LAST NAME
					INVENTOR

Signed and sealed

CITY	(5) at				SIGNATURE
DATE	on	2004	(Kenneth	Alan	Goldman)
			FIRST NAME	MIDDLE NAME	LAST NAME
					INVENTOR

Signed and sealed

CITY	(6) at				SIGNATURE
DATE	on	2004	(Sharon	Louise	Greene)
			FIRST NAME	MIDDLE NAME	LAST NAME
					INVENTOR

Signed and sealed

CITY	(7) at				SIGNATURE
DATE	on	2004	(Kevin	P.	McAuliffe)
			FIRST NAME	MIDDLE INITIAL	LAST NAME
					INVENTOR

Signed and sealed

CITY	(8) at				SIGNATURE
DATE	on	, 2004	(Shun	Shing	Chan)
			FIRST NAME	MIDDLE NAME	LAST NAME
					INVENTOR

State of Washington        ) ss.:  
County of                    )

INVENTOR        On this        day of                                2004 , before me personally came Harley Kent Heinrich, to  
(1)               me personally known, and known to me to be the person described in and who executed the foregoing  
assignment, and he acknowledged to me that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary

State of New York         ) ss.:  
County of                  )

INVENTOR        On this        day of                                , 200 , before me personally came Christian Lenz Cesar, to me  
(2)               personally known, and known to me to be the person described in and who executed the foregoing  
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\_\_\_\_\_  
Notary

State of New York         ) ss.:  
County of                  )

INVENTOR        On this        day of                                , 200 , before me personally came Thomas A. Cofino, to me  
(3)               personally known, and known to me to be the person described in and who executed the foregoing  
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\_\_\_\_\_  
Notary

State of New York         ) ss.:  
County of                  )

INVENTOR        On this        day of                                , 200 , before me personally came Daniel J. Friedman, to me  
(4)               personally known, and known to me to be the person described in and who executed the foregoing  
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\_\_\_\_\_  
Notary

State of Connecticut       ) ss.:  
County of                    )

INVENTOR        On this        day of                                , 200 , before me personally came Kenneth Alan Goldman,  
(5)               to me personally known, and known to me to be the person described in and who executed the foregoing  
assignment, and he acknowledged to me that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary

INVENTOR (6) On this day of , 200 , before me personally came Sharon Louise Greene, to me personally known, and known to me to be the person described in and who executed the foregoing assignment and she acknowledged to me that she executed the same to be her free act and deed.

INVENTOR      On this      day of      , 200 , before me personally came Kevin P. McAuliffe,  
(7)      to me personally known, and known to me to be the person described in and who executed the foregoing  
assignment, and he acknowledged to me that he executed the same as his free act and deed.

INVENTOR (8) On this day of , 200 , before me personally came Shun Shing Chan, to me personally known, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.

**PATENT**  
**REEL: 016170 FRAME: 0813**

**ASSIGNMENT**

Inventor  
and City

(1) Harley Kent Heinrich	of Everett and State of Washington
and (2) Christian Lenz Cesar	of Shrub Oak and State of New York
and (3) Thomas A. Cofino	of Rye and State of New York
and (4) Daniel J. Friedman	of Sleepy Hollow and State of New York
and (5) Kenneth Alan Goldman	of Norwalk and State of Connecticut
and (6) Sharon Louise Greene	of Mt. Kisco and State of New York
and (7) Kevin P. McAuliffe	of Cortlandt Manor and State of New York
and (8) Shun Shing Chan	of Flushing and State of New York

have invented certain improvements in

**TITLE**

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Signed and sealed  
 CITY (1) at  
 DATE on , 2004 (Harley Kent Heinrich)  
 FIRST NAME MIDDLE NAME LAST NAME SIGNATURE  
 INVENTOR

Signed and sealed  
 CITY (2) at  
 DATE on , 2004 (Christian Lenz Cesar)  
 FIRST NAME MIDDLE NAME LAST NAME SIGNATURE  
 INVENTOR

Signed and sealed  
 CITY (3) at  
 DATE on 2004 (Thomas A. Cofino)  
 FIRST NAME MIDDLE INITIAL LAST NAME SIGNATURE  
 INVENTOR

Signed and sealed  
 CITY (4) at  
 DATE on 11/23 2004  (Daniel J. Friedman)  
 FIRST NAME MIDDLE INITIAL LAST NAME SIGNATURE  
 INVENTOR

Signed and sealed  
 CITY (5) at  
 DATE on 2004 (Kenneth Alan Goldman)  
 FIRST NAME MIDDLE NAME LAST NAME SIGNATURE  
 INVENTOR

Signed and sealed  
 CITY (6) at  
 DATE on 2004 (Sharon Louise Greene)  
 FIRST NAME MIDDLE NAME LAST NAME SIGNATURE  
 INVENTOR

Signed and sealed  
 CITY (7) at  
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 FIRST NAME MIDDLE INITIAL LAST NAME SIGNATURE  
 INVENTOR

Signed and sealed  
 CITY (8) at  
 DATE on , 2004 (Shun Shing Chan)  
 FIRST NAME MIDDLE NAME LAST NAME SIGNATURE  
 INVENTOR



State of Washington        ) ss.:  
County of                    )

INVENTOR       On this       day of                    2004 , before me personally came Harley Kent Heinrich, to  
(1)       me personally known, and known to me to be the person described in and who executed the foregoing  
assignment, and he acknowledged to me that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary

State of New York         ) ss.:  
County of                  )

INVENTOR       On this       day of                    , 200 , before me personally came Christian Lenz Cesar, to me  
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Notary

State of New York         ) ss.:  
County of                  )

INVENTOR       On this       day of                    , 200 , before me personally came Thomas A. Cofino, to me  
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State of New York         ) ss.:  
County of                  )

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Notary

State of Connecticut       ) ss.:  
County of                  )

INVENTOR       On this       day of                    , 200 , before me personally came Kenneth Alan Goldman,  
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\_\_\_\_\_  
Notary

State of New York                    ) ss.:  
County of                                )

INVENTOR                                On this        day of                                , 200 , before me personally came Sharon Louise Greene,  
(6)                                to me personally known, and known to me to be the person described in and who executed the foregoing  
assignment and she acknowledged to me that she executed the same to be her free act and deed.

---

Notary

State of New York                    ) ss.:  
County of                                )

INVENTOR                                On this        day of                                , 200 , before me personally came Kevin P. McAuliffe,  
(7)                                to me personally known, and known to me to be the person described in and who executed the foregoing  
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Notary

State of New York                    ) ss.:  
County of                                )

INVENTOR                                On this        day of                                , 200 , before me personally came Shun Shing Chan, to me  
(8)                                personally known, and known to me to be the person described in and who executed the foregoing  
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Notary

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	and (2) Christian Lenz Cesar	of Shrub Oak and State of New York
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Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to Intermec IP Corp., its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to Intermec IP Corp., its successors and assigns; and we hereby agree that Intermec IP Corp., may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by Intermec IP Corp.

CITY	Signed and sealed				SIGNATURE
DATE	(1) at				INVENTOR
	on	, 2004	(Harley	Kent	Heinrich)
			FIRST NAME	MIDDLE NAME	LAST NAME
CITY	Signed and sealed				SIGNATURE
DATE	(2) at				INVENTOR
	on	, 2004	(Christian	Lenz	Cesar)
			FIRST NAME	MIDDLE NAME	LAST NAME
CITY	Signed and sealed				SIGNATURE
DATE	(3) at				INVENTOR
	on	2004	(Thomas	A.	Cofino)
			FIRST NAME	MIDDLE INITIAL	LAST NAME
CITY	Signed and sealed				SIGNATURE
DATE	(4) at				INVENTOR
	on	2004	(Daniel	J.	Friedman)
			FIRST NAME	MIDDLE INITIAL	LAST NAME
CITY	Signed and sealed				SIGNATURE
DATE	(5) at				INVENTOR
	on	Dec. 22, 2004		Alan	Goldman)
			FIRST NAME	MIDDLE NAME	LAST NAME
CITY	Signed and sealed				SIGNATURE
DATE	(6) at				INVENTOR
	on	2004	(Sharon	Louise	Greene)
			FIRST NAME	MIDDLE NAME	LAST NAME
CITY	Signed and sealed				SIGNATURE
DATE	(7) at				INVENTOR
	on	2004	(Kevin	P.	McAuliffe)
			FIRST NAME	MIDDLE INITIAL	LAST NAME
CITY	Signed and sealed				SIGNATURE
DATE	(8) at				INVENTOR
	on	, 2004	(Shun	Shing	Chan)
			FIRST NAME	MIDDLE NAME	LAST NAME





**ASSIGNMENT**

**Inventor  
and City**

(1) Harley Kent Heinrich  
of Everett  
and State of Washington

and (2) Christian Lenz Cesar  
of Shrub Oak  
and State of New York

and (3) Thomas A. Cofino  
of Rye  
and State of New York

and (4) Daniel J. Friedman  
of Sleepy Hollow  
and State of New York

and (5) Kenneth Alan Goldman  
of Norwalk  
and State of Connecticut

and (6) Sharon Louise Greene  
of Mt. Kisco  
and State of New York

and (7) Kevin P. McAuliffe  
of Cortlandt Manor  
and State of New York

and (8) Shun Shing Chan  
of Flushing  
and State of New York

have invented certain improvements in

**TITLE**

**RADIO FREQUENCY IDENTIFICATION SYSTEM WITH WRITE BROADCAST CAPABILITY**

for which an application for a United States patent was filed on July 26, 2004, Application  
Number 10/898,888.

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countries, and all rights of priority resulting from the filing of said United States application, and we  
request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in  
said application to Intermec IP Corp., its successors and assigns; and we hereby agree that Intermec  
IP Corp., may apply for foreign Letters Patent on said invention and we will execute all papers necessary in  
connection with the United States and foreign applications when called upon to do so by Intermec IP Corp.

Signed and sealed  
CITY (1) at  
DATE on , 2004 (Harley FIRST NAME Kent MIDDLE NAME Heinrich) LAST NAME SIGNATURE INVENTOR

Signed and sealed  
CITY (2) at  
DATE on , 2004 (Christian FIRST NAME Lenz MIDDLE NAME Cesar) LAST NAME SIGNATURE INVENTOR

Signed and sealed  
CITY (3) at  
DATE on 2004 (Thomas FIRST NAME A. MIDDLE INITIAL Cofino) LAST NAME SIGNATURE INVENTOR

Signed and sealed  
CITY (4) at  
DATE on 2004 (Daniel FIRST NAME J. MIDDLE INITIAL Friedman) LAST NAME SIGNATURE INVENTOR

Signed and sealed  
CITY (5) at  
DATE on 2004 (Kenneth FIRST NAME Alan MIDDLE NAME Goldman) LAST NAME SIGNATURE INVENTOR

Signed and sealed  
CITY (6) at Hawthorne, NY  
DATE on 11/23/2004 (Sharon FIRST NAME Louise MIDDLE NAME Greene) LAST NAME SIGNATURE INVENTOR

Signed and sealed  
CITY (7) at  
DATE on 2004 (Kevin FIRST NAME P. MIDDLE INITIAL McAuliffe) LAST NAME SIGNATURE INVENTOR

Signed and sealed  
CITY (8) at  
DATE on , 2004 (Shun FIRST NAME Shing MIDDLE NAME Chan) LAST NAME SIGNATURE INVENTOR



State of Washington        ) ss.:  
County of                    )

INVENTOR        On this        day of                                2004 , before me personally came Harley Kent Heinrich, to  
(1)        me personally known, and known to me to be the person described in and who executed the foregoing  
assignment, and he acknowledged to me that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary

State of New York                ) ss.:  
County of                        )

INVENTOR        On this        day of                                , 200 , before me personally came Christian Lenz Cesar, to me  
(2)        personally known, and known to me to be the person described in and who executed the foregoing  
assignment, and he acknowledged to me that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary

State of New York                ) ss.:  
County of                        )

INVENTOR        On this        day of                                , 200 , before me personally came Thomas A. Cofino, to me  
(3)        personally known, and known to me to be the person described in and who executed the foregoing  
assignment, and he acknowledged to me that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary

State of New York                ) ss.:  
County of                        )

INVENTOR        On this        day of                                , 200 , before me personally came Daniel J. Friedman, to me  
(4)        personally known, and known to me to be the person described in and who executed the foregoing  
assignment, and he acknowledged to me that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary

State of Connecticut                ) ss.:  
County of                        )

INVENTOR        On this        day of                                , 200 , before me personally came Kenneth Alan Goldman,  
(5)        to me personally known, and known to me to be the person described in and who executed the foregoing  
assignment, and he acknowledged to me that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary

State of New York ) ss.:  
County of )

INVENTOR (6) On this      day of      , 200 , before me personally came Sharon Louise Greene, to me personally known, and known to me to be the person described in and who executed the foregoing assignment and she acknowledged to me that she executed the same to be her free act and deed.

\_\_\_\_\_  
Notary

State of New York ) ss.:  
County of )

INVENTOR (7) On this      day of      , 200 , before me personally came Kevin P. McAuliffe, to me personally known, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary

State of New York ) ss.:  
County of )

INVENTOR (8) On this      day of      , 200 , before me personally came Shun Shing Chan, to me personally known, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary

**ASSIGNMENT**

Inventor  
and City

(1) Harley Kent Heinrich  
of Everett  
and State of Washington

and (2) Christian Lenz Cesar  
of Shrub Oak  
and State of New York

and (3) Thomas A. Cofino  
of Rye  
and State of New York

and (4) Daniel J. Friedman  
of Sleepy Hollow  
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and (5) Kenneth Alan Goldman  
of Norwalk  
and State of Connecticut

and (6) Sharon Louise Greene  
of Mt. Kisco  
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and (7) Kevin P. McAuliffe  
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		Signed and sealed			
CITY	(1) at				SIGNATURE
DATE	on	, 2004	(Harley	Kent	Heinrich)
			FIRST NAME	MIDDLE NAME	LAST NAME
					INVENTOR
		Signed and sealed			
CITY	(2) at				SIGNATURE
DATE	on	, 2004	(Christian	Lenz	Cesar)
			FIRST NAME	MIDDLE NAME	LAST NAME
					INVENTOR
		Signed and sealed			
CITY	(3) at				SIGNATURE
DATE	on	2004	(Thomas	A.	Cofino)
			FIRST NAME	MIDDLE INITIAL	LAST NAME
					INVENTOR
		Signed and sealed			
CITY	(4) at				SIGNATURE
DATE	on	2004	(Daniel	J.	Friedman)
			FIRST NAME	MIDDLE INITIAL	LAST NAME
					INVENTOR
		Signed and sealed			
CITY	(5) at				SIGNATURE
DATE	on	2004	(Kenneth	Alan	Goldman)
			FIRST NAME	MIDDLE NAME	LAST NAME
					INVENTOR
		Signed and sealed			
CITY	(6) at				SIGNATURE
DATE	on	2004	(Sharon	Louise	Greene)
			FIRST NAME	MIDDLE NAME	LAST NAME
					INVENTOR
		Signed and sealed			
CITY	(7) at				SIGNATURE
DATE	on	Nov, 23 2004	(Kevin	P.	McAuliffe)
			FIRST NAME	MIDDLE INITIAL	LAST NAME
					INVENTOR
		Signed and sealed			
CITY	(8) at				SIGNATURE
DATE	on	, 2004	(Shun	Shing	Chan)
			FIRST NAME	MIDDLE NAME	LAST NAME
					INVENTOR

State of Washington        )  
County of                    ) ss.:

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\_\_\_\_\_  
Notary

State of New York         )  
County of                  ) ss.:

INVENTOR (2) On this        day of                                , 200 , before me personally came Christian Lenz Cesar, to me personally known, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary

State of New York         )  
County of                  ) ss.:

INVENTOR (3) On this        day of                                , 200 , before me personally came Thomas A. Cofino, to me personally known, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary

State of New York         )  
County of                  ) ss.:

INVENTOR (4) On this        day of                                , 200 , before me personally came Daniel J. Friedman, to me personally known, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary

State of Connecticut       )  
County of                    ) ss.:

INVENTOR (5) On this        day of                                , 200 , before me personally came Kenneth Alan Goldman, to me personally known, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary

**INVENTOR**  
(6)

INVENTOR  
(7)

**INVENTOR**  
(8)

**PATENT**  
**REEL: 016170 FRAME: 0829**

**ASSIGNMENT**

Inventor and City	(1) Harley Kent Heinrich  and (2) Christian Lenz Cesar  and (3) Thomas A. Cofino  and (4) Daniel J. Friedman  and (5) Kenneth Alan Goldman  and (6) Sharon Louise Greene  and (7) Kevin P. McAuliffe  and (8) Shun Shing Chan	 of Everett and State of Washington  of Shrub Oak and State of New York  of Rye and State of New York  of Sleepy Hollow and State of New York  of Norwalk and State of Connecticut  of Mt. Kisco and State of New York  of Cortlandt Manor and State of New York  of Flushing and State of New York
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Signed and sealed  
CITY (1) at  
DATE on , 2004 (Harley FIRST NAME Kent MIDDLE NAME Heinrich) LAST NAME SIGNATURE INVENTOR

Signed and sealed  
CITY (2) at  
DATE on , 2004 (Christian FIRST NAME Lenz MIDDLE NAME Cesar) LAST NAME SIGNATURE INVENTOR

Signed and sealed  
CITY (3) at  
DATE on 2004 (Thomas FIRST NAME A. MIDDLE INITIAL Cofino) LAST NAME SIGNATURE INVENTOR

Signed and sealed  
CITY (4) at  
DATE on 2004 (Daniel FIRST NAME J. MIDDLE INITIAL Friedman) LAST NAME SIGNATURE INVENTOR

Signed and sealed  
CITY (5) at  
DATE on 2004 (Kenneth FIRST NAME Alan MIDDLE NAME Goldman) LAST NAME SIGNATURE INVENTOR

Signed and sealed  
CITY (6) at  
DATE on 2004 (Sharon FIRST NAME Louise MIDDLE NAME Greene) LAST NAME SIGNATURE INVENTOR

Signed and sealed  
CITY (7) at  
DATE on 2004 (Kevin FIRST NAME P. MIDDLE INITIAL McAuliffe) LAST NAME SIGNATURE INVENTOR

Signed and sealed  
CITY (8) at  
DATE on Nov 24, 2004 (Shun FIRST NAME Shing MIDDLE NAME Chan) LAST NAME SIGNATURE INVENTOR



State of Washington        ) ss.:  
County of                    )

INVENTOR        On this        day of                                2004 , before me personally came Harley Kent Heinrich, to me  
(1)               personally known, and known to me to be the person described in and who executed the foregoing  
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\_\_\_\_\_  
Notary

State of New York            ) ss.:  
County of                    )

INVENTOR        On this        day of                                , 200 , before me personally came Christian Lenz Cesar, to me  
(2)               personally known, and known to me to be the person described in and who executed the foregoing  
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\_\_\_\_\_  
Notary

State of New York            ) ss.:  
County of                    )

INVENTOR        On this        day of                                , 200 , before me personally came Thomas A. Cofino, to me  
(3)               personally known, and known to me to be the person described in and who executed the foregoing  
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\_\_\_\_\_  
Notary

State of New York            ) ss.:  
County of                    )

INVENTOR        On this        day of                                , 200 , before me personally came Daniel J. Friedman, to me  
(4)               personally known, and known to me to be the person described in and who executed the foregoing  
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\_\_\_\_\_  
Notary

State of Connecticut        ) ss.:  
County of                    )

INVENTOR        On this        day of                                , 200 , before me personally came Kenneth Alan Goldman,  
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\_\_\_\_\_  
Notary

