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SUBMISSION TYPE:	ON TYPE: NEW ASSIGNMENT				
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY DATA					
		Name	Execution Date		
Carl F. Hagerstrom			10/02/2006		
Thomas Dixon Hutchi	nson		10/02/2006		
Shridhar Bharthulwar			10/02/2006		
Paul E. Tinius			10/02/2006		
RECEIVING PARTY DATA					
Name:	EMC Corporation				
Street Address:	176 South Street				
City:	Hopkinton				
State/Country:	MASSACHUSETTS				
Postal Code:	01748				
PROPERTY NUMBERS Total: 1 Property Type Number					
Property Type		Number			
Application Number: 11538		38316			
CORRESPONDENCE DATA					
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Email: sjones@wnlaw.com Correspondent Name: Workman Nydegger					
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Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	60 East Sout 1000 Eagle (Salt Lake Cit NUMBER:	h Temple Gate Tower y, UTAH 84111			

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Total Attachments: 5 source=16192-47-executed-assignment#page1.tif source=16192-47-executed-assignment#page2.tif source=16192-47-executed-assignment#page3.tif source=16192-47-executed-assignment#page4.tif source=16192-47-executed-assignment#page5.tif

WHEN RECORDED AT U.S.PATENT & TRADEMARK OFFICE, RETURN TO: R. Burns Israelsen Workman Nydegger 1000 Eagle Gate Tower 60 East South Temple Salt Lake City, Utah 84111

ASSIGNMENT

I/We the undersigned, hereinafter collectively referred to as "Assignor", are the inventors of an invention entitled <u>DETECTING AND MANAGING MISSING PARENTS BETWEEN</u> <u>PRIMARY AND SECONDARY DATA STORES.</u>

Preferred embodiments of said invention are disclosed in a United States patent application filed in the United States Patent and Trademark Office as:

Serial No.

· · · ·

on the date of _____

(I hereby authorize the attorneys of Workman Nydegger to insert said serial number and filing date when known.)

The Assignee, EMC Corporation, a corporation of the state of Massachusetts, having a principal place of business at 176 South Street, Hopkinton, Massachusetts 01748, desires to secure the entire right, title and interest in said application.

In consideration of One Dollar (\$1.00) and other good and valuable consideration paid to Assignor by the Assignee, the receipt and sufficiency of which is hereby acknowledge, ASSIGNOR HEREBY ASSIGNS TO THE ASSIGNEE:

The entire right, title, and interest in the above-identified United States patent application and in all divisions, continuations and continuations-in-part of said application, or reissues or extensions of letters patent or patents granted thereon, and in all patents issuing thereon in the United States.

The right to claim the benefit of any prior related United States or foreign patent applications.

Assignor hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and all patents on said application to the Assignee as the owner of the

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entire interest, for the sole use and behoof of the said Assignee, its successors, assigns and legal representatives.

Assignor hereby agrees, without further consideration, to sign all lawful papers and to perform all other lawful acts which the Assignee may request Assignor to make this Assignment fully effective, including, by way of example but not of limitation, the following:

Prompt execution of all original, divisional, substitute, reissue, and other United States applications and all lawful documents requested by the Assignee to further the prosecution of any of such patent applications.

Cooperation to the best of Assignor's ability in the execution of all lawful documents, the production of evidence, nullification, reissue, extension, or infringement proceedings involving said application.

This assignment and agreement shall be binding upon Assignor's heirs and legal representatives.

Inventor 1

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Carl	F	Hagerstrom	
(GIVEN NAME)	(MIDDLE INITIAL OR NAM	IE) FAMILY (OR LAST NAME)	
Inventor's signature	Carl J Baser	2 ton	
Date $10/z/06$			
STATE OF Color	ado)		
2	(
COUNTY OF Don	(dek)		
On Detaker	<u>2</u> , 2006, before	me personally appeared Carl F. Hagerstrom,	
known to me to be th	e person described and v	ho signed the foregoing Assignment in my	
presence and acknowle	dged under oath before m	e that they have read the same and know the	
therein.		ee act and deed and for the purposes set forth	
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Inventor 2

Thomas	Dixon	Hutchinson
(GIVEN NAME)	MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
Inventor's signature	tour leanth	hut the
Date 10/02/200	<u></u>	
STATE OF COLORA		LYNN E. MARQUEZ YARGER NOTARY PUBLIC
COUNTY OF BOULD	: ss.) <i>ER</i>)	STATE OF CULORADO

On <u>OCTOBER</u> \mathcal{Q} , 2006, before me personally appeared Thomas Dixon Hutchinson, known to me to be the person described and who signed the foregoing Assignment in my presence and acknowledged under oath before me that they have read the same and know the contents thereof and executed the same as their free act and deed and for the purposes set forth therein.

WOTARY PUBLIC NOTARY PUBLIC Residing at <u>Bou bler Cf.</u> 1900WSouth Blor Ru La fayette, CO

My Commission Expires:

My Commission Expires 04/07/2010

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Inventor 3

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Shridhar		Bharthulwar
(GIVEN NAME)	(MIDDLE INITIAL OR NAME)	FAMILY (OR LAST NAME)
Inventor's signature	Stoly gold.	
Date 10 2 2006		
STATE OF <u>Colorad</u>) 7 : ss. 26)	
On <u>October Z</u> known to me to be the p presence and acknowledge contents thereof and execut	erson described and who si d under oath before me that	rsonally appeared Shridhar Bharthulwar, gned the foregoing Assignment in my they have read the same and know the and deed and for the purposes set forth
therein.	- Ma	Ula
	NOTARY I Residing at	PUBLIC Bog Coal Creek Cir Louiss. 1/6 Co Bog 27
My Commission Expires: 4	29/c7	
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Inventor 4	
Paul E.	Tinius
(GIVEN NAME) (GIVEN NAME)	FAMILY (OR LAST NAME)
Inventor's signature	<u>></u>
Date 10/02/06	
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STATE OF Colorado)	
2	
COUNTY OF Builder)	
On October Z, 2006, before me per	rsonally appeared Paul F. Tinius, known
to me to be the person described and who signed the for	regoing Assignment in my presence and
acknowledged under oath before me that they have read	the same and know the contents thereof
and executed the same as their free act and deed and for t	he purposes set forth therein.
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NOTARY P Residing at	Bas Coal Creek Cir Louis Ville, Co Sinz;
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