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Substitute Form PTO-1595 Attorney Docket No.: 06975-252001 Client's Ref. No.: Network 21

Commissioner for Patents: Please record the attached original document(s) or copy(ies). 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Lorin R. Sutton, Jr., Walter Scott Hall III, and America Online, Inc. 22000 AOL Way Craig E. Despeaux Dulles, VA 20166 Additional name(s) attached? ☐ Yes ☑ No 3. Nature of conveyance: 9.11.02 Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name □ Other: Additional names/addresses attached? ☐ Yes ☑ No Execution Date: September 11, 2002 4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s).: B: Patent No(s).: 10/157,955 Additional numbers attached? ☐ Yes ☑ No 5. Name/address of party to whom correspondence concerning 6. Total number of applications/patents involved: 1 document should be mailed: THOMAS A. ROZYLOWICZ 7. Total fee (37 CFR §3.41): \$40 Fish & Richardson P.C. ☑ Enclosed 1425 K Street, N.W. ☐ Authorized to charge Deposit Account. 11th Floor 8. Deposit Account No.: 06-1050 Washington, DC 20005-3500 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050. DO NOT USE THIS SPACE 9. Statement and Signature: To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. I had Upen Thomas A. Rozylowicz Reg. No. 50,620 Name of Person Signing

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Total number of pages including coversheet, attachments and document: 5

REEL: 013281 FRAME: 0916

ASSIGNMENT

For valuable consideration, we, LORIN R. SUTTON, JR. of Woodbridge, Virginia CRAIG E. DESPEAUX of Reston Virginia, and WALTER SCOTT HALL III of Berryville, Virginia, hereby assign to America Online, Inc., a Delaware corporation having a place of business at 22000 AOL Way Dulles, Virginia 20166; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled REDUCING DUPLICATION OF EMBEDDED RESOURCES ON A NET WORK, filed May 31, 2002, and assigned U.S. Serial Number 10/157.955, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

ln Witn	ess Whereof, I hereto set my hand and seal at
this	1 day of SEPTIEMBER, 20 02
	L.S.
	LORIN R. SUTTON, JR.
	Con A RD
	bignature witnessed by
	Caref-Lu Jutto
	WIYNESE:
	Printed Name: Card-Lee Sutton

Date

PATENT REEL: 013281 FRAME: 0917 Address: Balel Flindfort Terrorce Washinger, UNI 22191

	In Wit	tness Whereof, I hereto set my hand and seal at	,
	this	day of	
		L.S. CRAIG E. DESPEAUX	
		Signature witnessed by:	
		WITNESS:	
Date		Printed Name:	
		Address:	
	In Witt	ness Whereof, I hereto set my hand and seal at	
à	this	L.S. WALTER SCOTT HALL III	
		Signature witnessed by:	
		WITNESS:	
Date		Printed Name:	
		Address:	

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Attorney Docket No: 06975-252001

IN WITNESS WHEREOF, I hereto s this day of Septem! CRAIG E. DESPI	2,2002	, L.S.
Signature witnessed by: 9/11/2002 Date	WITNESS: CLA East Printed Name: Eric East Address: 107 Nickels PLSW Lees Lees La 20175	

REEL: 013281 FRAME: 0919

Attorney Docket No: 06975-252001

IN WITNESS WHEREOF,	I hereto set my hand and seal at,
this 11 th day of Sep	tember, 20 02
Willer Swit	To face to L.S.
WALTE	R SCOTT HALL'II
Signature witnes	ssed by:
	J. K. Hall
9-11-02	WITNESS: Jourse K Hall
Date	Printed Name: Louise K. HALL
	Address: 3000 PARSHALL RD
	READYLL E VA 22611

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