

## PATENT ASSIGNMENT

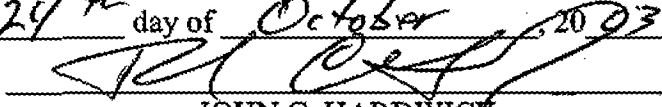
Electronic Version v1.1  
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
John C. Hardwick	10/24/2003
RECEIVING PARTY DATA	
Name:	Digital Voice Systems, Inc.
Street Address:	234 Littleton Road
City:	Westford
State/Country:	MASSACHUSETTS
Postal Code:	01886
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13744569
CORRESPONDENCE DATA	
Fax Number:	8777697945
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	(202) 783-5070
Email:	jfh@fr.com
Correspondent Name:	John F. Hayden
Address Line 1:	FISH & RICHARDSON P.C.
Address Line 2:	P.O.BOX 1022
Address Line 4:	MINNEAPOLIS, MINNESOTA 55440-1022
ATTORNEY DOCKET NUMBER:	03397-0040002
NAME OF SUBMITTER:	Christine M. Tomlinson
Signature:	/Christine M. Tomlinson/
Date:	08/29/2013
Total Attachments: 2 source=03397-0040001-Assignment#page1.tif source=03397-0040001-Assignment#page2.tif	

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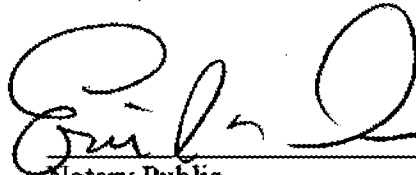
## ASSIGNMENT

For valuable consideration, I, JOHN C. HARDWICK of 75 Camperdown Lane, Sudbury, MA 01776, hereby assign to Digital Voice Systems, Inc., a corporation of Massachusetts having a place of business at 234 Littleton Road, Westford, MA 01886; 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 me, entitled HALF-RATE VOCODER, filed April 1, 2003, and assigned U.S. Serial Number 10/402,938; 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 I authorize the Assignee to apply in all countries in my 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 I agree for me and my 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.

IN WITNESS WHEREOF, I hereto set my hand and seal at Westford, MA,  
this 24<sup>th</sup> day of October, 2003  
  
\_\_\_\_\_  
JOHN C. HARDWICK L.S.

State of MA :  
: ss.  
County of Middlesex :

Before me this 24 day of October, 2003, personally  
appeared JOHN C. HARDWICK known to me to be the person whose name is subscribed to the  
foregoing Assignment and acknowledged that he executed the same as his free act and deed for  
the purposes therein contained.

  
\_\_\_\_\_  
Notary Public

My Commission Expires:

**ERIC I. DUNN**  
Notary Public  
My Commission Expires  
December 20, 2007

[Notary's Seal Here]

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