



11-07-2003

Substitute Form PTO-1595
Attorney Docket No.: 03397-040001

REC

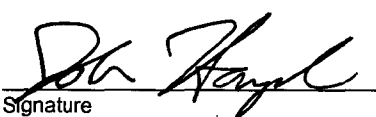


ET

102595983

11-61-03

Commissioner for Patents: Please record the attached original document(s) or copy(ies).

1. Name of conveying party(ies): John C. Hardwick Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Digital Voice Systems, Inc. 234 Littleton Road Westford, MA 01886 Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: October 24, 2003	
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): 10/402,938 B. Patent No(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name/address of party to whom correspondence concerning document should be mailed: JOHN F. HAYDEN Fish & Richardson P.C. 1425 K Street, N.W. 11th Floor Washington, DC 20005-3500	6. Total number of applications/patents involved: 1 7. Total fee (37 CFR §3.41): \$40 <input checked="" type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to charge Deposit Account. 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.
DO NOT USE THIS SPACE	
9. Statement and Signature: <i>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> John F. Hayden Reg. No. 37,640 Name of Person Signing  Signature 11/4/03 Date	
Total number of pages including coversheet, attachments and document: 3	

40185713.doc

11/06/2003 ECDOPER 00000074 10402938

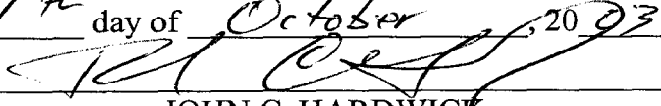
01 FC:8021

40.00 OP

PATENT
REEL: 014660 FRAME: 0022

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 24th day of October, 2003


JOHN C. HARDWICK L.S.

State of MA :

: ss.

County of Walden :

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]