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Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

**PATENT**  
REEL: 9562 FRAME: 0539

**Correspondent Name and Address**

Area Code and Telephone Number

(703) 696-9089

Name John B. Brocki

Address (line 1) 1501 Wilson Blvd, #614, ARL, VA 22209

Address (line 2)

Address (line 3)

Address (line 4)

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Enter the total number of pages of the attached conveyance document including any attachments.

# 2

**Application Number(s) or Patent Number(s)**

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Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

08772017

If this document is being filed together with a new Patent Application, enter the date the patent application was

Month Day Year

**Patent Cooperation Treaty (PCT)**

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

**Number of Properties**

Enter the total number of properties involved.

# 1

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41):

\$ NONE

Method of Payment: Deposit Account

Enclosed

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the Deposit Account Number:

#

Authorization to charge additional fees:

Yes

No

**Statement and Signature**

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JOHN B. BROCKI

Name of Person Signing

John B. Brocki  
Signature

9/21/98  
Date

LICENSE TO THE UNITED STATES GOVERNMENT

Invention Title: "Broadband Output Interface for Ultrafast Superconductor Digital Systems"

Inventor(s): V.K. Sememov, D.F. Schneider, Jao-ching Lin and S. Polonsky

Patent or Application Serial No.: 08/772,017

U.S. Filing/Issue Date: December 19, 1996

Grant/Contract Identification Number(s): F49620-92-J-0508

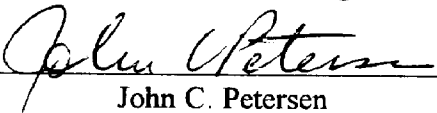
Foreign Applications filed/intended in (countries):

The invention identified above is a Subject Invention under **35 U.S.C. 200, et seq.**, and the Standard Patent Rights clause at **37 CFR 401.14 or FAR 52.227-11**, which are included among the terms of the above-identified grant/contract award from the Public Health Service/National Institutes of Health. This document is confirmatory of

- I. The nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the invention described in any patent application and in any and all divisions, continuations, and continuations in part, and in any and all patents and re-issues granted thereon throughout the world; and
- II. All other rights acquired by the Government by reason of the above identified grant/contract award and the laws and regulations which are applicable to the award.

The Government is hereby granted an irrevocable power to inspect and make copies of the above identified patent application.

Signed this, 14 day of August, 1998

By   
John C. Petersen

Title Director, Technology Transfer

For The Research Foundation of State University of New York

At SUNY at Stony Brook  
W5530 Melville Memorial Library  
Stony Brook, New York 11794-3369



DEPARTMENT OF THE AIR FORCE  
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH (AFMC)  
BOLLING AIR FORCE BASE, DC 20332-0001

31 Aug 98

MEMORANDUM FOR *JAC/JACNP*

FROM: AFOSR/JA

SUBJECT: *Confirmatory License to the Government-Invention Entitled "Broadband Output Interface for Ultrafast Superconductor Digital Systems"*

Attached is a contractor's confirmatory license to the government on the above-noted subject invention. It was conceived under F49620-92-J-0508 with the State University of New York.

  
JOYCE K. COPELAND  
Patents Clerk

PATENT  
REEL: 9562 FRAME: 0542

BRUMBAUGH, GRAVES, DONOHUE & RAYMOND  
30 ROCKEFELLER PLAZA  
NEW YORK, NEW YORK 10112

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TO ALL WHOM IT MAY CONCERN:

Be it known that WE, VASILII SEMENOV, DAVID F. SCHNEIDER, JAO-CHING LIN and STANISLAV POLONSKY, citizens of Russia, United States, Taiwan and Russia, respectively, residing in Stony Brook, County of Suffolk, State of New York; Stony Brook, County of Suffolk, State of New York; Sunnyvale, County of Santa Clara, State of California; and Stony Brook, County of Suffolk, State of New York, respectively, whose post office addresses are 10 Skylark Lane, Stony Brook, New York 11790; 9 Saddler Lane, Stony Brook, NY 11790; 1232 Vicente Drive, #B, Sunnyvale, CA 94086; and 9 Harbor Hill Road, Stony Brook, NY 11790, respectively, have invented an improvement in

INTERFACE BETWEEN SUPERCONDUCTOR  
AND SEMICONDUCTOR ELECTRONIC CIRCUITS USING  
PHASE-SHIFT-KEYING CODED OUTPUT DATA FORMAT

of which the following is a

SPECIFICATION

NOTICE OF GOVERNMENT RIGHTS

The U.S. Government has a certain rights in this invention pursuant to the terms of contract No. F49620-92-J-0508 awarded by the Air Force Office of Scientific Research (DoD).