		7-2005 ET
To the Director	of the U.S. Patent and Trac 403	114701 Jocuments or the new address(es) below.
1. Name of conveying party(ies)		2. Name and address of receiving party(ies)
NORTHROP GRUMMAN CORPORATION		Name: The United States of America as represented by the Secretary of the Air Force
		Internal Address: AFMCLO/JAZ
Additional name(s) of conveying party(ies) attached?		Bldg 11, Room 100
3. Nature of conveyance/Execution Date(s): Execution Date(s) 18 August 2005		Street Address: 2240 B Street
Assignment	□ Merger	City: Wright-Patterson Air Force Base
Assignment Kerger Nerger Security Agreement Change of Name		
Joint Research Agreement		State: Ohio
Government Interest Assignment		
Executive Order 9424, Confirmatory License		Country: U.S.A. Zip: 45433-7109
Other		Additional name(s) & address(es) attached? 🛛 Yes 🖾 No
	11/016,837	
	Additional numbers a Idress to whom correspondence ument should be mailed:	ttached? Yes X No 6. Total number of applications and patents involved: 1 1
concerning docu	Idress to whom correspondence ument should be mailed:	6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41)
oncerning docu	Idress to whom correspondence ument should be mailed: . Sinder	6. Total number of applications and patents involved:1
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City: Wright-P	Idress to whom correspondence ument should be mailed: . Sinder AFMCLO/JAZ Bldg 11, Room 100 2240 B Street atterson AFB	 6. Total number of applications and patents involved:1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title)
City: Ohio	Idress to whom correspondence Iment should be mailed: . Sinder AFMCLO/JAZ Bldg 11, Room 100 2240 B Street atterson AFB Zip: 45433-7109	 6. Total number of applications and patents involved:1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information a. Credit card Last 4 Numbers Expiration Date:
Concerning docu Name: Fredric L Internal Address: Street Address: City: Wright-P State: Ohio Phone Number:	Idress to whom correspondence Iment should be mailed: . Sinder AFMCLO/JAZ Bidg 11, Room 100 2240 B Street atterson AFB Zip: 45433-7109 (937) 255-2838	 6. Total number of applications and patents involved:1
Concerning docu Name: Fredric L Internal Address: Street Address: City: Wright-P State: Ohio Phone Number: Fax Number:	Idress to whom correspondence Iment should be mailed: . Sinder AFMCLO/JAZ Bldg 11, Room 100 2240 B Street atterson AFB Zip: 45433-7109 (937) 255-2838 (937) 255-3733	 6. Total number of applications and patents involved:1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information a. Credit card Last 4 Numbers Expiration Date: b. Deposit Account Number Authorized User Name
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PATENT REEL: 017172 FRAME: 0299

CONFIRMATORY LICENSE

APPLICATION FOR:	High Dynamic Range Mixer Apparatus and Balun Therefor
INVENTOR:	Howard Fudem et al.
SERIAL NO.:	United States Non-Provisional Patent Application 11/016,837
FILING DATE:	12/21/04
CONTRACT NO.:	F33615-02-C-1181
CONTRACTING AGENCY:	Wright Patterson Air Force Base

The above identified pending United States non-provisional patent application includes the invention identified and reported as invention disclosure BWI-03-0019, as a "Subject Invention" under the Patent Rights Clause included in Contract Number F33615-02-C-1181. This document is confirmatory of the paid-up license granted to the Government under this contract in this invention, patent application and any resulting patent, and of all other rights acquired by the Government under the contract.

Signed this Of August 2005

NORTHROP GRUMMAN CORPORATION

By:

Kathleen Salfnas Assistant Corporate Secretary

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> PATENT REEL: 017172 FRAME: 0300

RECORDED: 11/02/2005