

06-05-2000

5.9-00



PD-990208

To the Honorable Commissioner of Patent.

101373961

and original documents or copy thereof.

1. Name of conveying party(ies):

Kurt B. Kreiner, John R. Beattie, Alois Wittman and Lewis S. Pilcher

Additional Name(s) of conveying party(ies) attached?

Yes ☐

no ☒

2. Name and address of receiving party(ies):

Name: HUGHES ELECTRONICS CORPORATION

Internal Address: Bldg. 001, M/S A109
PO Box 956
200 N. Sepulveda Blvd.
El Segundo, CA 90245-0956

Street Address: 200 N. Sepulveda Blvd.
P.O. Box 956
El Segundo, California 90245

3. Nature of Conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

Execution Date: April 19, 2000, April 20, 2000 and April 27, 2000

Additional name(s) & address(es) attached? ☐ yes ☒ no

4. Application number(s) or patent number(s): PD-990208

09569708

If this document is being filed together with a new application, the execution date of the application is: April 19, 2000 and April 20, 2000 and April 27, 2000

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ yes ☒ no

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: HUGHES ELECTRONICS CORPORATION
Internal Address: Corporate Patents & Licensing
Bldg. 001, M/S A109
PO Box 956
El Segundo, CA 90245-0956

6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41): \$40.00

☐ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit account number:

50-0383

(Attached duplicate copy of this page if paying by deposit account)

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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.

Terje Gudmestad
Name of Person Signing

May 9, 2000
Date

Total number of pages comprising cover sheet: [4]

06/02/2000 DNGUYEN 00000228 500383 09569708

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ASSIGNMENT

Page 1 of 2
PD-990208

WHEREAS, I, as below named sole inventor (if only one name is listed below) or joint inventor (if plural names are listed below) of the city and state as stated below next to my name, have invented a(an) **ION THRUSTER WITH ION-EXTRACTION GRIDS HAVING COMPOUND CONTOUR SHAPES** for which application for Letters Patent of the United States has been executed by me on this day, or (if the following is completed) filed on _____ as Serial No. _____; and

WHEREAS, **HUGHES ELECTRONICS CORPORATION**, (hereinafter referred to as **HUGHES**), a Delaware Corporation, having its principal place of business in El Segundo, California, is desirous of acquiring the entire and exclusive right, title and interest in, to and under said invention, said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world;

NOW, THEREFORE, in consideration of the obligations voluntarily assumed by me and set forth in an invention agreement between me and my employer, effective the date as stated below next to my name, and other good and valuable consideration, receipt of which is hereby acknowledged, I do hereby sell, assign and transfer to HUGHES, its successors, assigns or other legal representatives, the entire and exclusive right, title and interest in and to said invention invented by me, to said application and any and all applications which are continuations, continuations-in- part, divisions or substitutes of said application and any and all Letters Patent that may be granted therefor in the United States and throughout the world on any of said applications and to any and all reexaminations, reissues, renewals or extensions of said Letters Patent in the United States and throughout the world; authorize and request The Commissioner of Patents and Trademarks of the United States and all foreign countries to issue all such Letters Patent to said HUGHES, its successors, assigns or other legal representatives; covenant that no assignment, sale, agreement, transfer or encumbrance has been, or will be, made or entered into which would conflict with this assignment, sale and transfer; and agree to communicate to HUGHES, its successors, assigns or other legal representatives, upon request and at no cost or expense to me, any facts known by me respecting said invention, do all lawful acts, including the execution and delivery of all papers and proper oaths and giving of testimony that is deemed necessary or desirable by HUGHES, its successors, assigns or other legal representatives with regard to said invention for protecting, obtaining, maintaining and enforcing any and all of said Letters Patent in the United States and throughout the world for said invention and for perfecting, affirming, recording and maintaining the title of HUGHES, its successors, assigns or other legal representatives, and generally cooperate to the fullest extent in all matters pertaining to said invention, and any and all of said Letters Patent and the title thereto in HUGHES, its successors, assigns or other legal representatives.

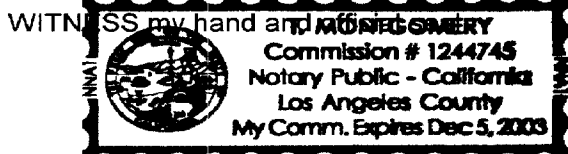
IN WITNESS WHEREOF, I have executed this instrument.

FULL NAME OF SOLE OR JOINT INVENTOR Kurt B. Kreiner	INVENTOR'S SIGNATURE <i>Kurt B. Kreiner</i>	DATE 4/19/00
RESIDENCE (CITY AND STATE) 30133 Via Victoria, Rancho Palos Verdes, CA. 90275		INVENTION AGREEMENT DATE
FULL NAME OF SOLE OR JOINT INVENTOR John R. Beattie	INVENTOR'S SIGNATURE <i>John R. Beattie</i>	DATE 4/20/00
RESIDENCE (CITY AND STATE) Westlake Village, California 91361		INVENTION AGREEMENT DATE March 14, 1977
FULL NAME OF SOLE OR JOINT INVENTOR Alois Wittmann	INVENTOR'S SIGNATURE <i>Alois Wittmann</i>	DATE 4/27/00
RESIDENCE (CITY AND STATE) Palos Verdes, California 90274		INVENTION AGREEMENT DATE
FULL NAME OF SOLE OR JOINT INVENTOR Lewis S. Pilcher PILCHER, 2507	INVENTOR'S SIGNATURE <i>Lewis S. Pilcher</i>	DATE 4/20/00
RESIDENCE (CITY AND STATE) El Segundo, California 90245		INVENTION AGREEMENT DATE 6/30/58

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES)

SS:

On April 19, 2000 before me, T. MONTGOMERY, a Notary Public in and for said State, personally appeared KURT B. KREINER*****
☒ personally known to me or ☒ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



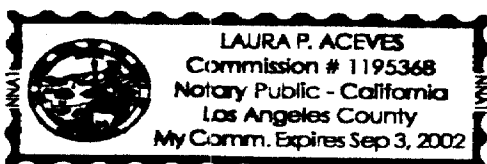
T. Montgomery
Notary Public

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES)

SS:

On April 20, 2000 before me, Laura P. Aceves, a Notary Public in and for said State, personally appeared, John R. Beattie
☐ personally known to me or ☒ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Laura P. Aceves
Notary Public
Laura P. Aceves

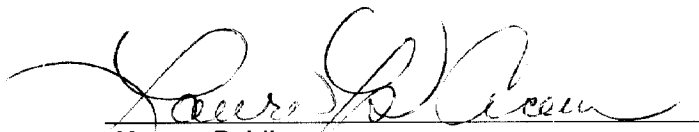
STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES)

SS:

On April 20, 2000 before me, Laura P. Aceves,
a Notary Public in and for said State, personally appeared Lewis S. Pilcher,
☐ personally known to me or ☒ proved to me on the basis of satisfactory evidence to be the person(s) whose
name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same
in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or
the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



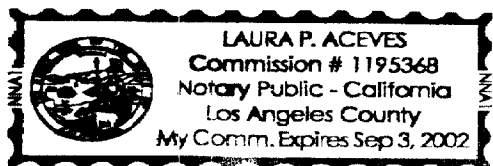

Notary Public
Laura P. Aceves

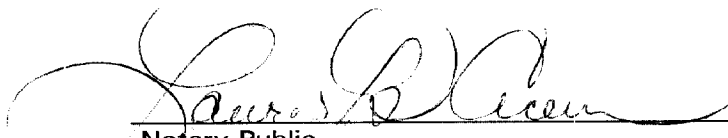
STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES)

SS:

On April 27, 2000 before me, Laura P. Aceves,
a Notary Public in and for said State, personally appeared Alois Wittmann,
☐ personally known to me or ☒ proved to me on the basis of satisfactory evidence to be the person(s) whose
name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same
in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or
the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.




Notary Public
Laura P. Aceves