

11-12-2002

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U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Darin J. Arbogast Frederick T. Calkins Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies) Name: The Boeing Company Internal Address:

3. Nature of conveyance: MRD 10/31/02 Assignment Merger Security Agreement Change of Name Other Execution Date: October 30, 2002

Street Address: 7755 East Marginal Way South City: Seattle State: WA Zip: 98108 Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s): ATTORNEY DOCKET NO.: BOEI-1-1087 If this document is being filed together with a new application, the execution date of the application is: 10/30/02 A. Patent Application No.(s) 10286097 B. Patent No.(s) Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Mark S. Beaufait, Esq. Internal Address: Black Lowe & Graham, PLLC Street Address: 816 Second Avenue City: Seattle State: WA Zip: 98104-1502

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: (Attach 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. Mark S. Beaufait, Reg. No. 48,529 Name of Person Signing Signature Date October 31, 2002

Total number of pages including cover sheet, attachments, and documents: 3

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Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

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PATENT REEL: 013465 FRAME: 0079

1046 U.S. PTO 10/28/02 10/31/02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Arbogast et al. Attorney Docket No. BOEI-1-1087
Serial No.: — Group Art Unit: —
Filing Date: October 31, 2002 Examiner: —
Title: ELECTRICAL SYSTEM FOR ELECTROSTRICTIVE BIMORPH ACTUATOR

ASSIGNMENT

WHEREAS, I, Darin J. Arbogast, residing at 23715 SE 250th Street, Maple Valley, WA 98038, am one of the inventors named in the above-identified United States patent application;

WHEREAS, I, Frederick T. Calkins, residing at 5430 41st Avenue SW, Seattle, WA 98136, am one of the inventors named in the above-identified United States patent application;

AND, WHEREAS, The Boeing Company, a Delaware corporation having a principal address at 7755 East Marginal Way South, Seattle, WA 98108 (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire right, title, and interest in and to the patent application and related inventions;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and intending to be legally bound hereby, I hereby assign and transfer to ASSIGNEE the entire right, title, and interest in and to the patent application and related inventions, including all improvements, variations, derivations and inventive subject matter directly or indirectly related to the patent application and inventions, and all provisional or nonprovisional patent applications or issued patents that have been or may be granted thereon, including without limitation all reissues, divisions, continuations, continuations-in-part, and extensions of the patent applications or patents, or any other form of protection for the inventions related to the patent application, in the United States and foreign countries; all rights of action arising from the inventions and all applications and patents on the inventions; all claims for damages by reason of past and future infringement of the inventions and all applications and



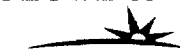
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BOEI-1-1087ASGN

BLACK LOWE & GRAHAM ^{PLLC}




816 Second Avenue
Seattle, Washington 98104
206.381.3301 PATENT 206.381.3301

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patents on the inventions, and the right to sue and collect damages for such infringement; to be held and enjoyed by the ASSIGNEE for its own use and benefit and for its successors and assigns as the same would have been held by me had this assignment not been made.

I do hereby further agree and promise to execute all instruments and render all such assistance as ASSIGNEE may request in order to make and prosecute any and all applications on the inventions, to maintain and enforce any and all patents on the inventions, and to confirm in ASSIGNEE legal title to the inventions and all applications and patents on the inventions in the United States and foreign countries, all without charge to ASSIGNEE but at no expense to me. In the event that ASSIGNEE is unable for any reason, after reasonable effort, to secure my signature on any document needed in connection with the actions specified in this paragraph, or to otherwise perfect in ASSIGNEE the entire right, title, and interest in and to the patent application and related inventions, I hereby irrevocably designate and appoint the ASSIGNEE and its duly authorized officers and agents as my agent and attorney-in-fact, to act for and in my behalf to execute, verify and file any such documents and to do all other lawfully permitted acts to further the purposes of this assignment with the same legal force and effect as if executed by me. I hereby waive and quitclaim to the ASSIGNEE any and all claims, of any nature whatsoever, which I now or may hereafter have for infringement of any proprietary rights assigned to the ASSIGNEE.

EXECUTED at SEATTLE (city), Washington, this 30 day of OCTOBER, 2002.


Darin J. Arbogast

EXECUTED at Kent (city), Washington, this 25 day of October, 2002.



Frederick T. Calkins



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BLACK LOWE & GRAHAM^{PLC}


816 Second Avenue
Seattle, Washington 98104
206 381 3300 • F: 206 381 3301

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