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

## 1. Name of the conveying party(ies):

ARVIN SHMILOVICHYORAM YADLINDAVID M. SMITH

Additional name(s) of conveying parties attached? No

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

Name: THE BOEING COMPANYStreet Address: 100 NORTH RIVERSIDE PLAZACity, State: CHICAGO, ILLINOIS Zip: 60606-15963. Nature of conveyance: ASSIGNMENTExecution Date: OCTOBER 18, 2002, OCTOBER 21, 2002, OCTOBER 24, 2002

Additional name(s) &amp; address(es) attached? No

## 4. Application number(s) or patent number(s):

10280411

If this document is being filed together with a new application, the execution date of the application is:

OCTOBER 18, 2002, OCTOBER 21, 2002, OCTOBER 24, 2002

## A. Patent Application No.(s):

Serial No.(s):

## B. Patent No.(s)

Additional numbers attached? No

## 5. Name and address of party to whom correspondence

concerning document should be mailed:

Name: WILLIAM C. ANDERSONInternal Address: THE BOEING COMPANYStreet Address: 15460 LAGUNA CANYON ROAD, MC 1650-7009City: IRVINE State: CA Zip: 926186. Total number of applns. and patents involved: 17. Total fee (37 CFR 3.41): \$40.00 ENCLOSED8. Deposit account number: N/A

(Attach dup. 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.

LAWRENCE N. GINSBERG

Name of person signing

  
Signature10/25/02  
DateTotal number of pages including cover sheet, attachments, and document: 2Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents and Trademarks, Box Assignments  
Washington, D.C. 20231PATENT  
REEL: 013432 FRAME: 0479

# ASSIGNMENT

Assignment before issue of Letters Patent

File

02-0341

WHEREAS, **ARVIN SHMILOVICH, YORAM YADLIN and DAVID M. SMITH**

(hereinafter "Assignor") have invented certain new and useful improvements in

**ACTIVE SYSTEM FOR WIDE AREA SUPPRESSION OF ENGINE VORTEX**

(hereinafter "invention") for which Assignor is making or has made application for LETTERS PATENT OF THE UNITED STATES, which application has been duly executed by Assignor on **even date herewith**

AND WHEREAS, **THE BOEING COMPANY**, a corporation organized and existing under the laws of the State of Delaware, U.S.A., having a place of business at:

**100 NORTH RIVERSIDE PLAZA, CHICAGO, ILLINOIS 60606 -1596,**

U.S.A., hereinafter called the Assignee, is desirous of acquiring the entire right, title and interest in and to said invention within the United States of America and its territorial possessions and all foreign countries and any United States or foreign LETTERS PATENT that may be granted therefor.

NOW, THIS INDENTURE WITNESSETH, that for good and valuable considerations, the receipt whereof is hereby acknowledged, Assignor has assigned, sold and transferred, and does hereby assign, sell and transfer to the said Assignee the entire right, title and interest in and to the said invention, within the United States of America and its territorial possessions and all foreign countries and in and to any LETTERS PATENT of the United States and foreign countries, including utility models, inventor's certificates and like government grants, and all divisions, reissues, continuations and extensions thereof that may be granted therefor, and the right to apply for LETTERS PATENT in foreign countries with full benefit of such priorities as may now or hereafter be granted to Assignor by local laws or by treaty, including any international convention, for the protection of industrial property, together with the right to extend the protection of said U.S. LETTERS PATENT to the various territorial possessions now owned or which may be hereafter acquired by the United States of America, all said rights to be held and enjoyed by the Assignee for its own use and benefit, and for the use and benefit of its successors or assigns, to the full end of the term for which said LETTERS PATENT may be granted, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. And Assignor does hereby request and authorize the Commissioner of Patents and Trademarks, U.S.A., to issue said U.S. LETTERS PATENT, when granted, in accordance with this assignment.

Assignor further covenants and agrees with the Assignee that Assignor has a full and unencumbered title to the invention hereby assigned, which title Assignor warrants unto the Assignee, and Assignor further agrees that Assignor will, without demanding any further consideration therefor, at the request but at the expense of the Assignee, do all lawful and just acts, including the execution and acknowledgment of instruments, that may be or become necessary for obtaining, sustaining, extending, reissuing or reexamining United States and foreign LETTERS PATENT or the like for the said invention, and for maintaining and perfecting the Assignee's right to said invention, and for maintaining and perfecting the Assignee's right to said invention and LETTERS PATENT particularly in cases of interference, conflict, opposition and litigation.

IN TESTIMONY WHEREOF, I have hereunto set my hand this

18<sup>th</sup> day of Oct, 2002



**ARVIN SHMILOVICH**

IN TESTIMONY WHEREOF, I have hereunto set my hand this

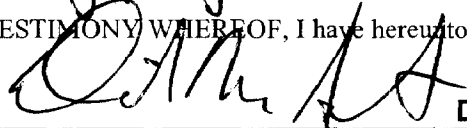
21<sup>st</sup> day of Oct, 2002



**YORAM YADLIN**

IN TESTIMONY WHEREOF, I have hereunto set my hand this

24<sup>th</sup> day of Oct, 2002



**DAVID M. SMITH**