

5.21.99

PATENTS ONLY

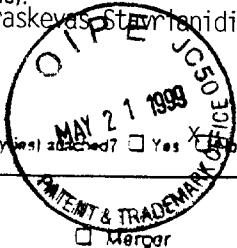
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To the Honorable Commissioner of Patents and Trademarks; Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
 Hong-Zeng Yu Paraskevas Stavrianidis  
 Tak-Sang Chan  
 Hsiang-Cheng Kung  
 William R. Brown  
 Additional name(s) of conveying party(ies) attached?  Yes  No



2. Name and address of receiving party(ies):  
 Name: Factory Mutual Research Corporation

Internal Address: \_\_\_\_\_

Street Address: 1151 Boston-Providence Turnpike

City: Norwood State: MA ZIP: 02062

Additional name(s) & address(es) attached?  Yes  No

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Date: \_\_\_\_\_

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

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

A. Patent Application No.(s)

09/293,882

B. Patent No.(s)

06-01-1999



101051040

Additional numbers attached?  Yes  No

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

Name: Richard L. Aitken

Internal Address: \_\_\_\_\_

Street Address: Lane, Aitken & McCann  
2600 Virginia Avenue, N.W.

City: Washington State: DC ZIP: 20037

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: 12-0275

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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.

Richard L. Aitken  
Name of Person Signing

[Signature]  
Signature

May 19 1999  
Date

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PATENT

## ASSIGNMENT

WHEREAS, Hong-Zeng Yu, of 41 Bicknell Street, Foxboro, MA 02035, Tak-Sang Chan, of 53 Garden Street, Sharon, MA 02067, Hsiang-Cheng Kung of 13 Ledgewood Road, Weston, MA 02193, William R. Brown, of 56 Park Street, Northfield, NH 03276, and Paraskevas Stavrianidis, of 45 Castle Drive, Sharon, MA 02067 (hereinafter "Assignors"), are the inventors of an invention entitled "Sprinkler Performance Evaluation System", set forth in an application for Letters Patent of the United States; and

WHEREAS, Factory Mutual Research Corporation (hereinafter "Assignee"), a corporation of Massachusetts, having a principal place of business at 1151 Boston-Providence Turnpike, Norwood, Massachusetts 02062, is desirous of acquiring or has acquired an interest therein and would like to have a document suitable for recording that interest;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, Assignors, by these presents do sell, assign and/or transfer, or acknowledge that they have sold, assigned and/or transferred unto Assignee and Assignee's successors, legal representatives, heirs and assigns, the full and exclusive right, title and interest in the United States of America and all foreign countries to the said invention as described in the specification of said application (and Assignors hereby authorize Assignee's attorneys, authorized to prosecute said application, to here insert the serial number and filing date of said application, when known: 09/293,882 filed April 19, 1999) preparatory to obtaining Letters Patent of the United States therefor, to said application, to all Letters Patent in the United States and all foreign countries which have been or may be granted on said invention, to all divisions, continuations and continuations-in-part of said application, to all reissues, reexaminations, and extensions of said Letters Patent, and to all rights respecting the invention that are accorded by international treaty; said invention, all of said applications for Letters Patent, all Letters Patent therefor, and all of said treaty rights to be held and enjoyed by Assignee for Assignee's own use and behoof and for Assignee's legal representatives, successors, heirs, and assigns, to the full end of the term of said Letters Patent and any extensions thereof, as fully and entirely as the same would have been held by Assignors had this assignment and sale not been made; and for the same consideration, Assignors hereby covenant and agree that Assignors will, whenever counsel of Assignee, or counsel of Assignee's successors, legal representatives, heirs or assigns, shall advise that any proceeding in connection with Letters Patent for said invention in any country, including interference

proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue or extension of any Letters Patent, obtained or to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said invention, without charge to Assignors, Assignors' successors, legal representatives, heirs and assigns, but at the cost and expense of Assignee, its successors, legal representatives, heirs, and assigns; and Assignors hereby request the U.S. Commissioner of Patents and similar officials of foreign countries to issue any of said Letters Patent to be granted to Assignee.

Date: 4/13/99

Hong-Zeng Yu  
 Hong-Zeng Yu

Date: 4/11/99

Tak-Sang Chan  
 Tak-Sang Chan

Date: 4/9/99

Hsiang-Cheng Kung  
 Hsiang-Cheng Kung

Date: 4-13-99

William R. Brown  
 William R. Brown

Date: 4/12/99

Paraskevas Stavrianidis  
 Paraskevas Stavrianidis

STATE OF \_\_\_\_\_ )  
 ) SS  
 COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally appeared the above-named Assignors, to me personally known as the individuals who executed the foregoing instrument and who acknowledged to me that they executed the same of their own free will for the purpose therein set forth.

\_\_\_\_\_  
 Notary Public