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To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Nickolas L. Brakensiek
Carlton A. Washburn
Earnest C. Murphy

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherExecution Date: January 4, 2005

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

Name: Brewer Science Inc.Address: 2401 Brewer DriveCity: Rolla State/Prov.: MissouriCountry: USA ZIP: 65401

Additional name(s) & address(es)

☐ Yes ☒ No

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

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

Patent Application No.

Filing date

B. Patent No.(s)

10/943,033

September 16, 2004

Additional numbers

☐ Yes ☒ No

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

Name: Tracy L. BornmanRegistration No. 42,347Address: HOVEY WILLIAMS LLP2405 Grand Boulevard, Suite 400City: Kansas City State/Prov.: MOCountry: USA ZIP: 64108

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☒ Authorized to be charged to deposit account

8. Deposit account number:

19-0522

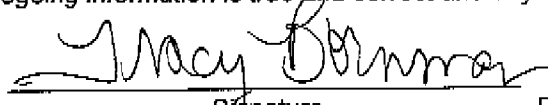
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9. Statement and signature.

*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.*Tracy L. Bornman

Name of Person Signing



Signature

January 12, 2005

Date

6

Total number of pages including cover sheet, attachments, and

Mail documents to be recorded with required cover sheet information to:

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PATENT

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ASSIGNMENT

WHEREAS, WE, Nickolas L. Brakensiek, of 20855 CR4400, St. James, MO 65559,
704 South Rolla St. LAW
Carlton A. Washburn, of ~~1708 B N Cedar~~, Rolla, MO 65401, and Earnest C. Murphy, of 19575
CR1210, St. James, MO 65559, have invented certain new and useful improvements in
METHOD OF FILLING STRUCTURES FOR FORMING VIA-FIRST DUAL

DAMASCENE INTERCONNECTS,

which is the subject of U.S. Patent Application No. 10/943,033, filed September 16, 2004; and

WHEREAS, Brewer Science Inc., a Corporation duly organized under the laws of the State of Missouri, and having its principal place of business at 2401 Brewer Drive, Rolla, Missouri 65401, is desirous of acquiring an interest in, to, and under said invention, said application and any and all Letters Patent which may be granted for or upon said invention in the United States of America and all countries foreign thereto.

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, WE, Nickolas L. Brakensiek, of 20855 CR4400, St. James, MO 65559, Carlton A. Washburn, of ~~1708 B N Cedar~~,
704 South Rolla St. LAW
Rolla, MO 65401, and Earnest C. Murphy, of 19575 CR1210, St. James, MO 65559, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto said Brewer Science Inc., the full and exclusive right, title, and interest, throughout the world, in, to, and under the following:

- (a) said invention as fully set forth and described in the specification prepared and executed by me on even date herewith preparatory to obtaining Letters Patent of the United States therefor;
- (b) said Application Serial No. 10/943,033, filed September 16, 2004;
- (c) any and all refilings and continuations of said application;
- (d) any and all Letters Patent of the United States of America that may issue from said application, refilings, divisions, and continuations;
- (e) any and all reissues of said Letters Patent of the United States of America;
- (f) any and all applications for Letters Patent on said invention that may hereafter be filed in any and all countries foreign to the United States of America;
- (g) any and all refilings, divisions, and continuations of said foreign-filed applications;

(h) any and all Letters Patent of countries foreign to the United States of America that may issue from said foreign-filed applications, refilings, divisions, and continuations; and

(i) any and all extension of, and additions to, said Letters Patent of countries foreign to the United States of America.

ALL of the above shall be held and enjoyed by said Brewer Science Inc. for its own use and behoof, and for its successors, legal representatives, and assigns, to the full end of the term for which said Letters Patent may be granted, and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent in accordance with this Assignment.

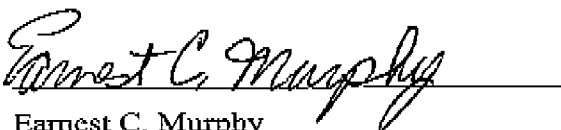
Executed this 4th day of January, 2005.



Nickolas L. Brakensiek



Carlton A. Washburn




Ernest C. Murphy

STATE OF Missouri)
) SS.
COUNTY OF Phelps)

On this 4th day of January, 2005, before me personally appeared
Nickolas L. Brakensiek, of 20855 CR4400, St. James, MO 65559, Carlton A. Washburn, of
704 South Rolla St.
1708 E. N. Cedar, Rolla, MO 65401, and Earnest C. Murphy, of 19575 CR1210, St. James, MO
65559, to me known to be the persons described in and who executed the foregoing instrument,
and they duly acknowledged to me that they executed the same for the uses and purposes therein
set forth.

CATHERINE M. FRANK
Notary Public - Notary Seal
State of Missouri
County of Phelps
My Commission Expires 04/10/2007


Notary Public

My Commission Expires: 4/10/2007

CATHERINE M. FRANK
Notary Public - Notary Seal
State of Missouri
County of Phelps
My Commission Expires 04/10/2007