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Attorney Docket No. KOCH.63648

FORM PTO-1595

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U.S. DEPT. OF COMMERCE
PATENT AND TRADEMARK OFFICE

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

1. Name of conveying party(ies): Richard R. Rall

Additional name(s) of conveying party(ies) attached?
 Yes No

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

Name: Koch-Glitsch, Inc.

Internal Address:

Street Address: 4111 E. 37th Street North

City: Wichita

State: Kansas

Zip:

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

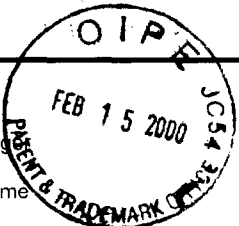
3. Nature of Conveyance:

Assignment Merger

Security Agreement Change of Name

Other: _____

Execution Date: January 28, 2000



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): 09/459,230; filed 12/10/99

B. Patent No.(s):

Additional numbers attached? Yes No

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

Name: Michael B. Hurd

Internal Address: Shook, Hardy & Bacon L.L.P.
One Kansas City Place

Street Address: 1200 Main Street

City: Kansas City

State: Missouri

Zip: 64105-2118

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 No.: 19-2112

(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.

Michael B. Hurd

2-7-2000

Name of person signing

Signature

Date

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

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

ASSIGNMENT

WHEREAS, I, Richard R. Rall, of 415 Lancaster Court, Wichita, in the County of Sedgwick, and State of Kansas, have invented certain new and useful improvements in APPARATUS FOR CONTACTING OF GASES AND SOLIDS IN FLUIDIZED BEDS for which I have made application for Letters Patent of the United States, Serial No. 09/459,230, filed December 10, 1999; and

WHEREAS, Koch-Glitsch, Inc., a corporation duly organized under the laws of the State of Kansas, and having its principal place of business at 4111 E. 37th Street North, Wichita, County of Sedgwick, and State of Kansas, 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 are hereby acknowledged, I, Richard R. Rall, have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said Koch-Glitsch, Inc., the full and exclusive right, title and interest, throughout the world, in, to and under said invention as fully set forth and described in the above-identified application; in, to and under said application; in, to and under any and all refilings, divisions and continuations of said application; in, to and under any and all Letters Patent of the United States of America which may issue from said application, refilings, divisions and continuations; in, to and under any and all reissues of said Letters Patent of the United States of America; in, to and under any and all applications for Letters Patent upon said invention which may hereafter be filed in any and all countries foreign to the United States of America; in, to and under any and all refilings, divisions

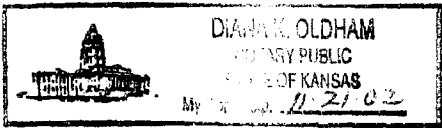
and continuations of said foreign-filed applications; in, to and under any and all Letters Patent of countries foreign to the United States of America, which may issue from the said foreign-filed applications, refilings, divisions and continuations; and in, to and under any and all extensions of, and additions to, said Letters Patent of countries foreign to the United States of America, the same to be held and enjoyed by said Koch-Glitsch, 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 I do hereby authorize and request the Commissioner of Patents to issue the said Letters Patent in accordance with this assignment.

EXECUTED this 28th day of January, 2000.

Richard R. Rall
Richard R. Rall

STATE OF KANSAS :
: ss.
COUNTY OF SEDGWICK :

Before me personally appeared Richard R. Rall, to me known to be the person described in, and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth, on the day and year aforesaid.



Diana K. Oldham
Notary Public

SEAL

My Commission Expires:
11-21-02