

08-06-2002



Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002) Tab settings

102179853

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

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

87-9-8

1. Name of conveying party(ies): Harris Trust and Savings Bank Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies) Name: Perma Pipe, Inc. Internal Address: Street Address: 7720 Lehigh Avenue City: Niles State: IL Zip: 60714 Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance: Assignment Merger Security Agreement Change of Name Other Release and Reassignment of Patents Execution Date: July 11, 2002

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) SEE ATTACHED SCHEDULE A-1 B. Patent No.(s) SEE ATTACHED SCHEDULE A-1 Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Tammy S. Settle Vedder, Price, Kaufman & Internal Address: Kammholz Street Address: 222 North LaSalle Street, Ste. 2600 City: Chicago State: IL Zip: 60601

6. Total number of applications and patents involved: 10 7. Total fee (37 CFR 3.41): \$ 400.00 Enclosed Authorized to be charged to deposit account Charge any deficiencies or credit any overpayment to: 8. Deposit account number: 22-0259 (Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

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. Tammy S. Settle Name of Person Signing Signature Date Aug 5 2002

Total number of pages including cover sheet, attachments, and documents: 6

08/06/2002 TDIAZ1 00000113 220259 4532375 Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231 01 FC:581 400.00 CH

PATENT REEL: 013146 FRAME: 0174

SCHEDULE A-1**ISSUED PATENTS
AND PATENT APPLICATIONS****ISSUED UNITED STATES PATENTS**

| PATENT TITLE | PATENT NO. | ISSUED |
|---|------------|----------|
| Heating Device for Utilizing the Skin Effect of Alternating Current | 4,532,375 | 07/30/85 |
| Heating Device for Utilizing the Skin Effect of Alternating Current | 4,617,449 | 10/14/86 |
| Leak Detector and Locator Utilizing Time Domain Reflectometry and Sampling Techniques | 4,797,621 | 01/10/89 |
| U.S. and Japanese Fluid Detection System & Method Having a Coaxial Cable with Solid, Stranded Dielectric Elements | 4,910,998 | 03/27/90 |
| Alarm System | 5,334,970 | 08/02/94 |
| Corrosion Resistant Cable | 5,355,720 | 10/18/94 |
| Method and Apparatus for Detecting and Distinguishing Leaks Using Reflectometry and Conductivity Tests (as amended) | 5,410,255 | 04/25/95 |

PENDING UNITED STATES PATENT APPLICATIONS

| PATENT TITLE | SERIAL NO. | FILED |
|--------------------|------------|----------|
| Types of Materials | 459,037 | 06/02/95 |
| Gold Cable | 893,499 | 06/04/92 |
| Analog System | 926,305 | 08/10/92 |

RELEASE AND REASSIGNMENT OF PATENTS

THIS RELEASE AND REASSIGNMENT dated July 11, 2002 by Harris Trust and Savings Bank, as collateral agent as hereinafter described;

WITNESSETH:

WHEREAS, Harris Trust and Savings Bank, an Illinois banking corporation with its mailing address at 111 West Monroe Street, Chicago, Illinois 60690 (hereinafter referred to as "*Harris*"), for itself and as collateral agent hereunder for the Secured Creditors (as hereinafter defined) (Harris acting as such collateral agent being hereinafter referred to as "*Agent*"), and Perma Pipe, Inc., a Delaware corporation (the "*Company*") having its chief executive office and mailing address at 7720 Lehigh Avenue, Niles, Illinois 60714, are parties to a certain Patent Collateral Agreement dated September 28, 2001 which was recorded in the United States Patent and Trademark Office on October 3, 2001 at Reel 012211, Frame 0755 and pursuant to which, among other things, the Company granted to the Agent a security interest in and collateral assignment of the patents listed on Schedule A-1 attached hereto and certain other property described therein (collectively, the "*Patents*") as security for the indebtedness, obligations and liabilities described therein.

WHEREAS, the Company has requested that the Agent release its security interests in the Patents and reassign the same to the Company.

NOW, THEREFORE, for good and valuable consideration, receipt and sufficiency of which are hereby acknowledged:

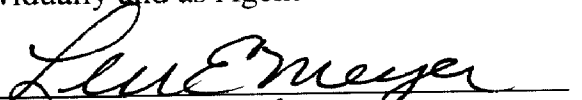
The Agent hereby releases its security interests in and collateral assignment of, and reassigns, grants and conveys to the Company, without any representation, warranty, recourse or undertaking by the Agent, all of its right, title and interest, if any, in and to:

(i) each patent and patent application listed on Schedule A-1 hereto, and all of the inventions as described and claimed therein and any and all reissues, continuations, continuations-in-part or extensions thereof; and; and

(ii) each patent license listed on Schedule A-2 hereto and all royalties and other sums due or to become due under or in respect of each such patent license, together with the right to sue for and collect all such royalties and other sums.

IN WITNESS WHEREOF, the Agent has caused this Release and Reassignment to be duly executed by its duly authorized officer as of the day and year first above written.

HARRIS TRUST AND SAVINGS BANK,
individually and as Agent

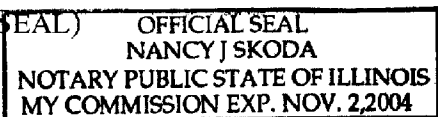
By 
Name LEN E. MEYER
Title Vice President

STATE OF ILLINOIS)
) SS
COUNTY OF COOK)

I, Nancy J. Skoda, a Notary Public in and for said County, in the State aforesaid, do hereby certify that Len E. Meyer, a Vice President of Harris Trust and Savings Bank, an Illinois banking corporation, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument as such Vice President appeared before me this day in person and acknowledged that he signed and delivered the said instrument as his own free and voluntary act and as the free and voluntary act and deed of said corporation for the uses and purposes therein set forth.

Given under my hand and notarial seal, this 11th day of July, 2002.

(NOTARIAL SEAL)



Nancy J. Skoda
Notary Public

My Commission Expires:

Nancy J. Skoda
(Type or Print Name)

Nov. 2, 2004

SCHEDULE A-2

PATENT LICENSES

None.