

11-30-1999

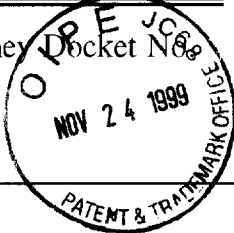


OFFICE

MRD 11/24/99

101209534

Attorney Docket No.



U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

RECORDATION FORM COVER SHEET
PATENTS ONLY

To the Assistant Commissioner for Patents
Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

PLASTIC TUBES NORTH AMERICA, INC.

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

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

Name: THATCHER TUBES LLC.

Street Address: 1005 Courtaulds Drive
Woodstock, Illinois 60098

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

3. Nature of conveyance: Assignment

Execution Date: November 16, 1999

4. Title: PROCESS CONTROL METHOD FOR A MACHINE FOR
MANUFACTURING THERMOPLASTIC TUBES

5. 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)
09/199,643

B. Patent No.(s)

Additional numbers attached? Yes ___ No XX

11/29/1999 VBROWN 00000074 09199643

01 FC:581

40.00 DP

PATENT
REEL: 010398 FRAME: 0149

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

Name: ARMSTRONG, WESTERMAN, HATTORI,
MCLELAND & NAUGHTON
1725 K Street, N.W., Suite 1000
Washington, D.C. 20006

7. Total number of applications and patents involved: 1

8. Total fee (37 CFR 3.41). \$40.00

XX Enclosed

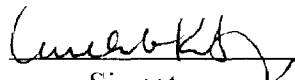
 Authorized to be charged to Deposit Account

9. Deposit Account No.: **01-2340**
(Two copies of this paper are attached.)

10. 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.

William G. Kratz, Jr.
Name of Person Signing


Signature

November 24, 1999
Date

22,631
Registration No.

Total number of pages including cover sheet, attachments and document: 5

Rev. 2/97

ASSIGNMENT

WHEREAS, PLASTIC TUBES NORTH AMERICA, INC., a corporation of the State of Delaware, having a place of business at 1005 Courtaulds Drive, Woodstock, Illinois 60098 (hereinafter "Assignor"), is the owner by assignment from the inventors of the entire right, title and interest in and to certain new and useful improvements in:

United States Patent Application Serial No. 09/199,643 filed November 25, 1998 entitled: "PROCESS CONTROL METHOD FOR A MACHINE FOR MANUFACTURING THERMOPLASTIC TUBES" recorded on January 14, 1999 at Reel/Frame 9694/0428.

AND WHEREAS, THATCHER TUBES LLC, a corporation of the State of Delaware, having a place of business at 1005 Courtaulds Drive, Woodstock, Illinois 60098 (hereinafter "Assignee"), is desirous of acquiring said entire right, title and interest in and to said application and the inventions and improvements therein disclosed;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration paid to Assignor by said Assignee, receipt whereof is hereby acknowledged, Assignor does hereby assign, sell, transfer, and set over unto said Assignee the entire right, title and interest in and to said application and the inventions and improvements therein disclosed for the United States of America and all foreign countries, including all of its rights under the International Convention for the Protection of Industrial Property, and any Letters Patent which may issue therefor in the

United States of America and all foreign countries, and all divisions, reissues, continuations, renewals, and/or extensions thereof, said Assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, renewals, and/or extensions thereof, respectively, as fully and entirely as if the same would have been held and enjoyed by Assignor had this assignment not been made.

The Commissioner of Patents is requested to issue such Letters Patent in accordance herewith. Assignor covenants that Assignor is the lawful owner of the said application, inventions, and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the said inventions or improvements or any of them, and that Assignor has the full right to make this assignment.

And for the consideration aforesaid, Assignor agrees that Assignor will communicate to said Assignee or the representatives thereof any facts known to Assignor respecting said inventions and improvements, and will, upon request, but without expense to Assignor, testify in any legal proceedings, sign all lawful papers execute all divisional, reissue, continuation, renewal and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said Assignee or by counsel for said Assignee, to assist or enable said Assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding

upon Assignor's heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said Assignee.

Assignor further expressly appoints said Assignee as attorney in fact with power to appointment, and authorizes said Assignee or its appointee, at its discretion, to apply for Letters Patent in any and all countries, including any and all countries which are or may become parties to the International Convention for the Protection of Industrial Property in accordance with all provisions of said convention, without, however, any expense to Assignor.

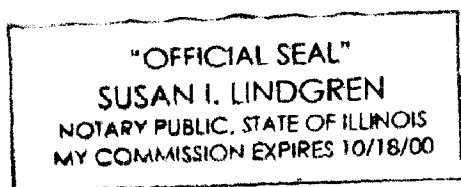
IN WITNESS WHEREOF, Assignor has caused this Assignment to be signed and its seal affixed this 16 day of November, 1999.

PLASTIC TUBES NORTH AMERICA, INC.

(SEAL)

By

Name:
Title:



Susan Lindgren