504825366 03/19/2018

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| BENJAMIN FRANK | 04/08/2014 |

RECEIVING PARTY DATA

| Name: | PACKAGING CORPORATION OF AMERICA |
|-----------------|----------------------------------|
| Street Address: | 1900 WEST FIELD COURT |
| City: | LAKE FOREST |
| State/Country: | ILLINOIS |
| Postal Code: | 60045 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15924677 |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | 247088-000122USC1 |
|-------------------------|------------------------------|
| NAME OF SUBMITTER: | JOHN C. GATZ |
| SIGNATURE: | /John C. GatzReg. No. 41774/ |
| DATE SIGNED: | 03/19/2018 |

Total Attachments: 2

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PATENT 504825366 REEL: 045272 FRAME: 0837

ASSIGNMENT

WHEREAS, I, BENJAMIN FRANK, have invented certain new and useful improvements in the following: SYSTEM AND METHOD FOR DETERMINING AN IMPACT OF MANUFACTURING PROCESSES ON THE CALIPER OF A SHEET MATERIAL, for which I have made application for United States Letters Patent, the said application having been filed on April 4, 2014 and assigned Serial Number 61/975,390;

WHEREAS, PACKAGING CORPORATION OF AMERICA, a corporation organized and existing under the laws of the State of Delaware, having its principal place of business at 1900 West Field Court, Lake Forest, Illinois 60045 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring my entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I do hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives my entire right, title and interest in and to said invention and in and to said applications and all patents which may be granted therefore, and all provisionals, divisions, reissues, substitutions, continuations, continuation-in-part and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as my interest is concerned, to the said ASSIGNEE of our entire right, title and interest.

I also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said applications throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and

I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

I hereby further agree that I will communicate to said ASSIGNEE, or its successors, assigns and legal representatives, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all provisional, divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

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PATENT REEL: 045272 FRAME: 0838

Customer No.: 70001 IN WITNESS WHEREOF, I have hereunto set my hand and seal this _, 2014. Name: Benjamin Frank Address: 885 Knollwood Drive Buffalo Grove, Illinois 60089 STATE OF COUNTY OF S day of ______ _____, 2014, before me, a Notary Public in and for the State and County aforesaid, personally appeared, known by me to be the person of the above name who signed and sealed the foregoing instrument, and acknowledged the same to be his own free act and deed. Notary Public [seal] My Commission Expires: OFFICIAL SEAL JOYCE L STREFF Notary Public - State of Illinois My Commission Expires Sep 25, 2015

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