(Rev. 5-95)	T U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
	56218 anached original documents or copy thereof.
Name of conveying party(ies):	record the attached original documents of copy thereof.
Corinne Elizabeth Luthe	2. Name and address of receiving party(ies):
Richard McKinnon Berry	Name: Pulp and Paper Research Institute of Canada
Jian Li	Internal Address:
	Internal Address.
Additional names of conveying party(ies) attached? ☐ Yes ☒ No	
3. Nature of conveyance:	(3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
☑ Assignment ☐ Merger	Street Address: 570 boul. St-Jean,
☐ Security Agreement ☐ Change of Name	City: Pointe Claire, State Quebec, ZIP H9R 3J0
☐ Other	Additional name(s) & address(es) attached? ☐ Yes ☒ No
Execution Date: August 30/September 1, 1999	
<ol> <li>Application number(s) or patent number(s):         If this document is being filed together with a new application, the A. Patent Application No.(s)     </li> </ol>	e execution date of the application is:  B. Patent No.(s)
Application filed herewith	
Additional numbers at	tached? Yes No
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of application and patents involved:
SWABEY OGILVY RENAULT	7. Total fee (37 CFR 3.41): \$ <u>40.00</u>
1981 McGill College Ave., Suite 1600 Montreal, Quebec, Canada H3A 2Y3	Any deficiencies in enclosed fees are authorized to be
Tel. (514) 845-7126	
• •	8. Deposit account number: 19-5113
Attorney Docket No.: 10326-55US KPM:ER	(Attach duplicate copy of this page if paying by deposit account)
DO NOT USE	THIS SPACE
7. FCH5dEment and signature 40.00 OP  To the best of my knowledge and belief, the foregoing information of the original document.	is true and correct and any attached copy is a true copy
Kevin P. Murphy, Reg. 26674  Name of Person Signing  Signature	September 15, 1999 Date
	Total number of pages comprising cover sheet:  4

PATENT REEL: 010282 FRAME: 0882

## ASSIGNMENT OF INVENTION UNIVERSAL

We, Corinne Elizabeth Luthe, Richard McKinnon Berry and Jian Li of 134 chemin de l'Ile, Ile Cadieux, Quebec J7V 8P3, 478 des Erables, Ile Perrot, Quebec, J7V 7R5 and 629 Vickery Way, Marietta, GA 30066, U.S.A., have invented certain improvements in **PULPING PROCESS** and described in U.S. Provisional Application 60/103,640, filed October 9, 1998, and in a U.S. Patent Specification, executed on Aug. 30/Sept. 1, 1999, and:

WHEREAS, PULP AND PAPER RESEARCH INSTITUTE OF CANADA of 570 St. John's Boulevard, Pointe Claire, Quebec, Canada H9R 3J9 (hereinafter referred to as the Assignee), is desirous of acquiring the entire right, title and interest in and to said invention or inventions and in and to any and all Patents to be obtained therefore;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other valuable consideration, the receipt of which is hereby acknowledged, I have and by these presents do hereby sell, assign and transfer unto said Assignee, its successors and assigns, the entire right, title and interest in and to said invention or inventions, as described in the aforesaid U.S. Patent Application and Specification, in and to any and all Patent Applications filed in any country based thereon, including the U.S. Application, including the right to file Applications under the provisions of the International Convention and the Patent Cooperation Treaty; also the entire right to be obtained in Canada or any foreign country; also the entire right, title and interest in and to any and all Patents, Reissues or extensions thereof to be obtained in this or any foreign country upon said invention or inventions, and any divisional, continuation, continuation-in-part, substitute Application(s) or Supplementary Disclosure(s) which may be filed upon said invention or inventions, in any country; and I hereby authorize and request the issuing authority to issue any and all Patents on said Application or Applications to said Assignee.

PATENT REEL: 010282 FRAME: 0883 We further agree without any payment by said Assignee other than expenses incurred by the undersigned, to communicate to said Assignee, its representatives or agents, any facts relating to said invention or inventions, including evidence for interference purposes or for the proceedings, whenever requested; testify in any interference, litigation or other proceedings, whenever requested; and execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective, and likewise make these provisions binding upon my heirs, legal representatives, administrators and assigns.

Le(s) soussigné(s) désire(nt) que la présente cession soit en anglais. The undersigned request(s) that the present Assignment be in English.

EXECUTED this\	_ day of September, 1999, at
Pointe Claire (	Juebec Canada
Merle Ray Witness	Corinne Elizabeth Luthe
	day of <u>Septembor</u> , 1999, at
Mede Roy Witness	Richard McKinnon Berry

PATENT REEL: 010282 FRAME: 0884

EXECUTED this 304	day of 12015 + , 1999, at
Atlanta	USA
Witness	Jian Li

PATENT RECORDED: 09/16/1999 REEL: 010282 FRAME: 0885