FORM PTO-1596 (Rev. 6-93) REC 11-17	-2003 EET U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
OM ⁿ -No. 0651-0011 (exp. 4/94)	
To the Honorable Commissioner of Pa. 10260	
Name of conveying party(ies):	Name and address of receiving party(ies)
Penford Corporation	Name: Harris Trust and Savings Bank, as Adm. Agen
	Internal Address:
Additional name(s) of conveying party(ies) attached? Yes No	
3. Nature of conveyance:	
☐ Assignment ☐ Merger	Street Address: 111 West Monroe Street
☐ Security Agreement ☐ Change of Name	
☑ Other Patent Collateral Agreement	City: Chicago State: IL ZIP: 60603
Execution Date: October 7, 2003	Additional name(s) & address(es) attached? Yes No
4. Application number(s) or patent number(s):	·
If this document is being filed together with a new applicatio	on, the execution date of the application is:
A. Patent Application No.(s)	B. Patent No.(s)
See Schedule A-1 attached hereto	See Schedule A-1 attached hereto
Additional numbers at	I Itached? ☐ Yes ☐ No
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 8
Name:	7. Total fee (37 CFR 3.41)\$32000
Attn: Penelope J.A. Agodoa	☐ Enclosed
Federal Research Company, LLC 1030 15th Street, NW, Suite 920 Washington, DC 20005	☐ Authorized to be charged to deposit account
202.783.2700	8. Deposit account number:
City State: ZIP:	(Attach duplicate copy of this page if paying by deposit account)
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Statement and signature. To the best of my knowledge and belief, the foregoing informathe original document.	nation is true and correct and any attached copy is a true copy of
Elizabeth Szklarz	White Section November 13, 2003
Name of Person Signing Total number of pages including	Signature 7 Date cover sheet, attachments, and document:

11/18/2003 GTON11 00000023 5294453

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Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments

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Washington, D.C. 20231 320.00 OP

SCHEDULE A-1 TO PATENT COLLATERAL AGREEMENT

U.S. PATENT NUMBERS AND PENDING U.S. PATENT APPLICATION NUMBERS

COUNTRY	PATENT/A PP NO.	TITLE	SUBJECT MATTER	SIGNIFICANCE TO BUSINESS	EXP. DATE
U.S. (28053/30754)	Pat. No. 5294453	Method of Removing Off- Flavor Components from Hydroxypropyl Starch Hydrolyzate Products	Removal of Mono and Di- Hydroxy Glucose	Material. Protects commercial opportunities	Mar.15, 2011
U.S. (28053/37341)	Pat. No. 6303174	Food Compositions Including Resistant Starch	Food Compositions Including Resistant Starch	Material. Key base technology patent	Dec. 24, 2013
U.S. (28053/37756)	Pat. No. 6451367	Food Compositions Including Resistant Starch	Food Compositions Including Resistant Starch	Material. Key base technology patent	Dec. 24, 2013
U.S. (28053/9511)	Pat. No. 5110612	Hydroxypropyl Starch Hydrolyzate Product	Hydroxypropyl Starch Hydrolyzate Product	Material. Protects commercial cooportunities	May 5, 2009
U.S. (28053/37756A)	Appl. No. 10/233977	Food Compositions Comprising Resistant Starch	Food Compositions Comprising	Material. Key base technology patent	Dec. 24, 2013
			Resistant Starch		
U.S. (28053/37955)	Appl. No. 10/009023	Starch Sub-Types and Lipid Metabolism	Resistant Starch Methods of Treating Obesity with Resistant Starch Compositions	Material. Key base technology patent	April 6, 2021
		• • • •	Methods of Treating Obesity with Resistant Starch	base technology	April 6, 2021 Jan. 13, 2023

PATENT COLLATERAL AGREEMENT

This 7th day of October, 2003, PENFORD CORPORATION, a Washington corporation ("Debtor") with its principal place of business and mailing address at 7094 South Revere Parkway, Englewood, Colorado 80112 Attn: Chief Financial Officer, in consideration of ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, assigns, mortgages and pledges to HARRIS TRUST AND SAVINGS BANK, an Illinois banking corporation, as administrative agent, with its mailing address at 111 West Monroe Street, Chicago, Illinois 60603 Attn: Food Group, and its successors and assigns ("Secured Party"), and grants to Secured Party a continuing security interest in, the following property:

- (i) Each patent and patent application listed on Schedule A-1 hereto and all of the inventions described and claimed therein and any and all reissues, continuations, continuations-in-part or extensions thereof; 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; and
- (iii) All proceeds of the foregoing, including without limitation any claim by Debtor against third parties for damages by reason of past, present or future infringement of any patent listed on Schedule A-1 hereto or of any patent licensed under a patent license listed on Schedule A-2 hereto, in each case together with the right to sue for and collect said damages;

to secure performance of all Secured Obligations of Debtor as set out in that certain Security Agreement bearing even date herewith by and among Debtor, Secured Party and the other parties thereto (the "Security Agreement").

Debtor does hereby further acknowledge and affirm that the rights and remedies of Secured Party with respect to the assignment, mortgage, pledge and security interest in the patents, patent applications and patent licenses made and granted hereby are more fully set forth in the Security Agreement.

1577087.01.03 1575000

IN WITNESS WHEREOF, Debtor has caused this Patent Collateral to be duly executed as of the date and year last above written.

PENFORD (Corp	ORA	TION.
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By _S	telly or Cording
Name _	steven o Cordier
Title _	VP+ CFO

ATTEST:

Margaret Von der Ahmier

Name: Margaret Von der Ehmiat

Title: Corporate Controller

HARRIS TRUST AND SAVINGS BANK

By ______
Name _____
Title _____

HARRIS TRUST AND SAVINGS BANK

Name KAREY L. KHUDSEY
Title VILE PRETIDENT

STATE OF ILLINOIS)) SS		
COUNTY OF COOK) 33		
I, David B, R the State aforesaid, do he vice fresident who is personally known to instrument as such Vice acknowledged that he signed and as the free and voluntar set forth.	of Harris Trust and S me to be the same per (ルビいのモンT, app d and delivered the sa	Savings Bank, an Illinoi rson whose name is substeared before me this id instrument as his own	is banking corporation scribed to the foregoing and day in person and free and voluntary act
	l and notarial seal, thi	s 1h day of October,	2003.
(NOTARIAL SEAL)		Notary P	tublic Tuber
My Commission Expires: Official Seal David B Roberts Notary Public State of My Commission Expires	Wingin H.	Dav; d B, A (Type or	Print Name)

STATE OF (O)OTLOTO)	
COUNTY OF Arapaher)	
T	
1, Sam R Huds	a Notary Public in and for said County, in
the State aforesaid, do hereby certify	that Steve Condier,
	Corporation, a Washington corporation, and
named by known to me to be the same	de Controller of said corporation, who are
instrument as such	persons whose names are subscribed to the foregoing and <u>Controller</u> Secretary, respectively,
	d acknowledged that they signed and delivered the said
	y act and as the free and voluntary act and deed of said
corporation for the uses and purposes	therein set forth; and the said
Sccretary then and there acknowledged	that he, as custodian of the corporate seal of said
•	said corporation to said instrument as his own free and
therein set forth:	ary act of said corporation, for the uses and purposes
therem set forth.	
Given under my hand and notarial	seal, this <u>O7</u> day of October, 2003.
	SEA Hudson
(NOTARIAL SEAL)	Notary Public
	Sara R Hudson
My Commission Expires:	(Type or Print Name)
Sara R. Hudson, Notary Public	
State of Colorado	
My Commission Expires 2/15/2006	

SCHEDULE A-2 TO PATENT COLLATERAL AGREEMENT

PATENT LICENSES

None

RECORDED: 11/17/2003