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To the Honorable Commissioner 1028980	ached original documents or copy thereof
Name of conveying party(ies):	2. Name and address of receiving party(ies)
Long DANG, Kenneth W. KINZLER, and Bert VOGELSTEIN	Name: THE JOHNS HOPKINS UNIVERSITY
Additional name of conveying party(ies) attached? ☐ Yes ☐ No	Internal Address:
Nature of conveyance:	
	Street Address: 3400 N. Charles Street
☐ Security Agreement ☐ Change of Name	
Other	City: Baltimore State: MD Zip: 21218
Execution Date: October 24, 2004 & November 1, 2004	Additional Name(s) & address(es) attached? ☐ Yes ☒ No
Application number(s) or patent number(s):	
If this document is being filed together with a new application A. Patent Application No.(s) 10/495,116	on, the execution date of the application is: B. Patent No.(s)
Additional numbers at	tached? Yes No
Name and address of party to whom correspondence concerning this document should be mailed:	6. Total number of applications and patents involved: 1
Name: BANNER & WITCOFF, LTD	7. Total fee (37 CFR 3.41) \$ 40.00
Internal Address:	☐ Enclosed
Ab	Deposit account number:
Street Address: 11 th Floor, 1001 G Street, NW	19-0733
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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.

Sarah A. Kagan

Name of Person Signing

11-23-2604 Date

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Total number of pages including cover sheet, attachments, and documents: 2 Mail documents to be recorded with required cover sheet information to:

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Washington, D.C. 20231

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PATENT

REEL: 016046 FRAME: 0336

ASSIGNMENT

1760 Timber trail, Ann Arbor, 411

WHEREAS, WE, Long Dang, a U.S. citizen, residing at 2225 Rogene Drive, #101, Baltimore. Maryland 21209, USA, Kenneth W. Kinzler, a U.S. citizen, residing at 1403 Halkirk Way, Bel Air, Maryland 21015, USA and Bert Vogelstein, a U.S. citizen, residing at 3700 Breton Way, Baltimore, Maryland 21208, have invented certain new and useful improvements in "COMBINATION BACTERIOLYTIC THERAPY FOR THE TREATMENT OF TUMORS" for which a provisional application for Letters Patents of the United States was filed November 21, 2001, and accorded Serial No. 60/331,786; and

WHEREAS, The Johns Hopkins University, a corporation duly organized under the laws of the State of Maryland, having a place of business at 3400 N. Charles Street, Baltimore, Maryland 21218 (Assignee), is desirous of acquiring the entire rights, titles and interest in and to the aforesaid inventions and in and to any Letters Patents of the United States or any foreign country which may be granted therefore:

NOW THEREFORE, for good and valuable consideration, we, Long Dang, Kenneth W. Kinzler and Bert Vogelstein, by these presents do sell, assign, and transfer unto The Johns Hopkins University, its successors, legal representatives and assigns, our full right to the said inventions as described in the said applications, and our entire right, title and interest in and to any and all Letters Patents which may be granted therefore in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations and extensions thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks or any other proper officer or agency of any country to issue all said Letters Patents to said assignee;

AND WE HEREBY warrant and covenant that we have full right to convey our entire interest herein assigned and that we have not executed and will not execute any instrument or assignment in conflict herewith;

AND WE HEREBY agree to communicate to said assignee or its representatives any facts known to us respecting said inventions, to execute all divisional, continuation, reissue and foreign applications, sign all lawful documents and make all rightful oaths relating to said inventions, and to testify in any judicial or administrative proceeding and generally do everything possible to aid the said assignee to obtain and enforce said Letters Patents in the United States or any foreign country when requested so to do by said assignee.

RECORDED: 11/23/2004

Inventor:

Inventor:

Inventor:

Bert Vogelstein

PATENT REEL: 016046 FRAME: 0337