J. O. B. MICE	띩	
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TMENT OF COMMERCE

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OMB No. 0651-0011 (exp. 4/94)

PATENT

REEL: 014566 FRAME: 0169

ASSIGNMENT

I, Deming Shu of Darien, in the State of Illinois, for good and valuable considerations to me in hand paid, the receipt and sufficiency whereof is hereby acknowledged, have sold, assigned, conveyed and set over, and do hereby sell, assign, convey and set over unto THE UNIVERSITY OF CHICAGO, an Illinois corporation, organized under the laws of the State of Illinois, having a place of business at 5801 South Ellis Avenue. Chicago, Illinois 60637, its successors and assigns, the entire right, title and interest in and to all subject matter invented or designed by me and disclosed in the patent application for the OPTICAL DESIGN FOR LASER ENCODER RESOLUTION EXTENSION WITH THREE-DIMENSIONAL MOTION DECOUPLING, ANL Case No. ANL-IN-01-136, filed in the U.S. Patent and Trademark Office on June 30, 2003, and assigned Serial No. 10/610,192, and any divisions and continuations thereof and in and to all Letters Patent of the United States, including any reissues and extensions thereof that may be obtained therefor, and the right, where such right can be legally exercised, in its own name to apply for and obtain Letters Patent, Inventor's Certificates, Utility Models and Designs, in countries foreign to the United States, including the full right to claim for any such application the benefits of the International Convention as fully and entirely as I could have done if the application had been in my name, and the entire interest in any Letters Patent, Inventor's Certificate, Utility Model or Design which may be granted on any such application in such foreign country; and I hereby authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue Letters Patent, Inventors Certificates, Utility Models or Designs, on applications as aforesaid, to issue any and all Letters Patent, Inventor's Certificates, Utility Models and Designs that may be granted for said invention to said UNIVERSITY OF CHICAGO, its successors and assigns.

And for the above-named considerations, I hereby agree that I will without additional compensation but without cost to myself, promptly communicate to said UNIVERSITY OF CHICAGO, its successors and assigns, any facts known to me respecting said invention whenever requested, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications for Letters Patent, Inventor's Certificates, Utility Models and Designs and assignments thereof, make all rightful oaths and generally do everything possible to aid said assignee, its successors and assigns, as and when requested by them, in obtaining and enforcing proper Letters Patents, Inventor's Certificate, Utility Model and Design protection for said invention or inventions and improvements, in the United States and in all other countries.

Disshu
Deming Shu
before me a Notary Public in and for the County and State are personally known to me to be the same persons whose, and acknowledged that they executed same instrument a poses therein expressed.
,

MIRIAM R. LEGAN
NOTARY PUBLIC, STATE OF ILLINOIS
MY COMMISSION EXP. 10/9/2003

" OFFICAL SEAL "

WITNESS my hand and seal the day and year last above given.

RECORDED: 10/06/2003

Notary Public

Moriam L.

PATENT REEL: 014566 FRAME: 0170