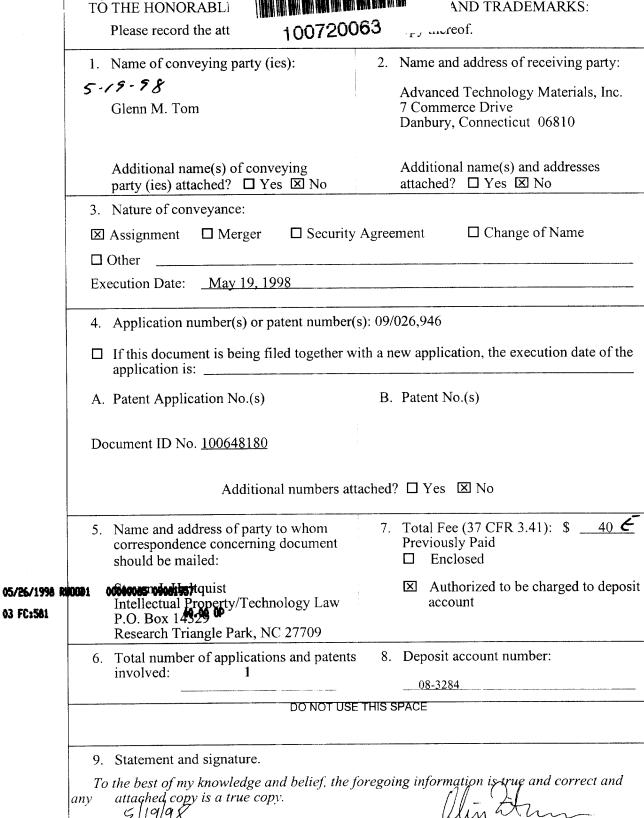
RECORDAT.

03 FC:581

05-28-1998

Docket Number 2771-291

AND TRADEMARKS:



Total number of pages including coversheet, attachments, and document:

Reg. No. 38,691

ASSIGNMENT

I have made an invention described in the U.S. Patent Application entitled:

"Piezoelectric Quartz Crystal Hydrogen Sensor, and Hydrogen Sensing Method Utilizing Same"

I have executed the patent application on the same date as this Assignment and the patent application is about to be filed in the United States Patent and Trademark Office.

I assign to Advanced Technology Materials, Inc., 7 Commerce Drive, Danbury, Connecticut 06810 all of my ownership and rights in:

- (i) the invention and U.S. Patent Application;
- (ii) U.S. Patents on the invention; and
- (iii) corresponding foreign patent applications and patents.

I am making this assignment based on my employment relationship with Advanced Technology Materials, Inc.

I request the Commissioner of Patents and Trademarks of the United States and the appropriate officers of all foreign countries to issue patents on the invention to:

Advanced Technology Materials, Inc. .

I agree to execute any other legal documents that may be required to effectuate this Assignment.

I agree that I will promptly communicate to Advanced Technology Materials, Inc. all facts which come to my attention affecting the invention or patent rights.

I agree that I will testify in any interference or litigation involving the invention or patent rights.

Page 1 of 2 PATENT

REEL: 9186 FRAME: 0807

Inventor's name: Glenn M. Tom

State of Connecticut

County of Fairfield

Glenn M. Tom appeared before me on <u>May / 9</u>, 1998. He declared to me that he is the person described in this Assignment. He executed this Assignment before me, and declared that his execution was completely voluntarily.

And Soldlinan
Notary Public

(SEAL)

My commission expires: 4-30-02

Page 2 of 2

PATENT

RECORDED: 02/20/1998 REEL: 9186 FRAME: 0808