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To The Honorable Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies) thereof.

1. Name of conveying party(ies):
Henry E. Cantwell
David B. Eason **2-7-02**
Additional name(s) of conveying party(ies) attached? Yes No

3. Name and address of receiving party(ies):
Name: Eagle-Picher Technologies, LLC
Internal Address:
Street Address: C & Porter Streets
City: Joplin State: MO Zip: 64801
Additional name(s) & address(es) attached? Yes No

2. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
Execution Date: February 5, 2002

4. Application number(s) or patent number(s): **10,071,044**
If this document is being filed together with a new application, the execution date(s) of the application is/are: February 5, 2002
Express Mail No. EV048699428US - Filed February 7, 2002
A. Patent Application No.(s) B. Patent No.(s)
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Gregory J. Lunn
Internal Address:
WOOD, HERRON & EVANS, L.L.P.
2700 Carew Tower
Cincinnati, OH 45202-2917
Street Address: 441 Vine Street
City: Cincinnati State: OH Zip: 45202-2917

6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 3.41):\$40.00
 Enclosed
 Authorized to be charged to deposit account
8. Deposit Account Number: 23-3000
(Attach duplicate copy of this page if paying by deposit account)

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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.
William R. Allen William R. Allen February 7, 2002
Reg. No. 48,389 Signature Date
Total number of pages comprising cover sheet, attachments, and document(s): 3

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Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents and Trademarks, Box Assignments
Washington, D.C. 20231

PATENT
REEL: 012591 FRAME: 0071

ASSIGNMENT OF INVENTION AND PATENTS THEREON

WHEREAS, I (we), Henry E. Cantwell and David B. Eason have invented HOMOEPITAXIAL LAYERS OF P-TYPE ZINC OXIDE AND THE FABRICATION THEREOF as fully disclosed in an application for Patent so entitled and (check one)

- executed by me (us) on even date herewith
- filed by me (us) on _____, as Serial No. __ preparatory to obtaining Letters Patent of the United States therefor; and

WHEREAS, EAGLE-PICHER TECHNOLOGIES, LLC, a corporation organized under the laws of the State of Delaware and having its principal office at C & Porter Streets, Joplin, MO 64801, desires to acquire the entire interest in and to the subject matter disclosed in said application and in and to all patents issued or to be issued thereon.

NOW, THEREFORE, to all whom it may concern, be it known that, for and in consideration of the sum of One Dollar to me (each of us) in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I (we) have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said EAGLE-PICHER TECHNOLOGIES, LLC my (our) entire right, title and interest in and to the subject matter disclosed in said application and in and to all Letters Patent Domestic and Foreign issued or to be obtained thereon, including all rights and interests with priority rights under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperative Union, European Patent Convention, Common Market Convention, or any other Convention or Union for each country of said Convention or Union; and I (we) do hereby authorize and request the Commissioner of Patents to issue the Letters Patent granted on said application and all future patents granted upon the subject matter disclosed therein to the above-named Assignee, its legal representatives and assigns.

Full Name of Inventor:	<u>Cantwell</u>	<u>Henry</u>	<u>E.</u>
	Last Name	First Name	Middle Name

<u>Henry E. Cantwell</u>	<u>2/5/2002</u>
Signature	Date

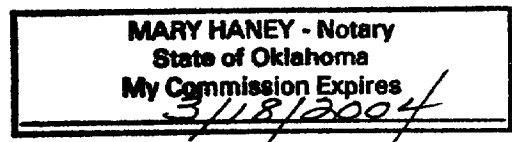
Post Office Address:	<u>1303 21st, N.E.</u>	<u>Miami, OK</u>	<u>74354</u>
	Post Office Address	City, State or County	Zip Code

STATE)
) SS
 COUNTY)

On this 5 day of Febr., 2002 before me personally appeared Henry E. Cantwell to me known and known by me to be the above-named individual who acknowledged the signing of the foregoing instrument to be a voluntary act and deed and who executed the same for the uses and purposes therein specified.

Mary Haney
 Notary Public

(SEAL)



Full Name of Second Inventor: Eason David B.
Last Name First Name Middle Name

David B. Eason 2/5/2002
Signature Date

Post Office Address: 324 B Street N.W. Miami, OK 74354
Post Office Address City, State or County Zip Code

STATE)
) SS
COUNTY)

On this 5 day of Feb, 2002, before me personally appeared David Eason to me known and known by me to be the above-named individual who acknowledged the signing of the foregoing instrument to be a voluntary act and deed and who executed the same for the uses and purposes therein specified.

Mary Haney
Notary Public

(SEAL)

**MARY HANEY - Notary
State of Oklahoma
My Commission Expires
3/18/2004**