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Washington, D.C. 20231

Yvette Haddix
Yvette Haddix

11/5/98

JC549 U.S. PTO
09/186587
11/05/98

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of
Hoffman, Jr. et al.

Serial No.: Unknown


Filed: Herewith

For: **USING A CRITICAL COMPOSITION
GRADING TECHNIQUE TO DEPOSIT
InGaAs EPITAXIAL LAYERS ON
InP SUBSTRATES**

Attorney Docket No.:
ESR 2 001

Examiner:

Art Unit:

11-16-1998

100877450

Cleveland, Ohio 44114
November 5, 1998

ASSIGNMENT TRANSMITTAL LETTER

Assistant Commissioner
For Patents
Washington, D.C. 20231

Dear Sir:

Please record the attached original document(s)
or copy(ies) thereof.

1. Name of Party(ies) conveying an interest:
Richard W. Hoffman, Jr.
David M. Wilt

2. Name of Party(ies) receiving an interest:
ESSENTIAL RESEARCH, INC.
23811 Chagrin Boulevard, Suite 280
Cleveland, Ohio 44122

3. Description of the interest conveyed:
 X Assignment Change of Name
 Security Agreement Merge
Other _____

40.00 IP
PATENT
FC:581
01/13/1998 JMW:KINS 0000046 09186587

4. This document is being filed together with a new application, the execution date of which is: November 5, 1998.
5. Name and address of Party to whom correspondence concerning this document should be mailed:

Sandra M. Koenig
Reg. No. 33,722
FAY, SHARPE, BEALL, FAGAN
MINNICH & MCKEE
1100 Superior Avenue, 7th Floor
Cleveland, Ohio 44114-2518
6. One patent application is involved.
7. Amount of fee enclosed or authorized to be charged:
\$ 40.00
8. Deposit Account Number (attached duplicate copy of this form if paying by Deposit Account): 06-0308.
9. The assignment shows it was signed on:
November 5, 1998.
10. 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.

Total Number of pages including cover sheet (1 pages); and documents (2 pages); Total: 3 pages.

Respectfully submitted,

FAY, SHARPE, BEALL, FAGAN,
MINNICH & MCKEE

November 5, 1998
Date

Sandra M. Koenig
Sandra M. Koenig
Reg. No. 33,722
1100 Superior Avenue
Seventh Floor
Cleveland, OH 44114-2518
(216) 861-5582

Attorney Docket No.: ESR 2 001

ASSIGNMENT

We, Richard W. Hoffman, Jr. of 30211 Meadowlane Drive, City of Bay Village, County of Cuyahoga, and State of Ohio; and, David M. Wilt of 27107 Russel Road, City of Bay Village, County of Cuyahoga, and State of Ohio, having invented certain new and useful improvements in:

USING A CRITICAL COMPOSITION GRADING TECHNIQUE TO DEPOSIT InGaAs EPITAXIAL LAYER OF InP SUBSTRATES

for which we are about to make application for Letters Patent of the United States, the said application having been executed by me on this 5th day of November, 1998, do hereby, in consideration of One Dollar (\$1.00) and other good and valuable consideration, receipt of which is hereby acknowledged, sell, assign, and transfer unto ESSENTIAL RESEARCH, INC., an Ohio corporation, having a principal place of business at:

23811 Chagrin Boulevard, Suite 280
Cleveland, Ohio 44122

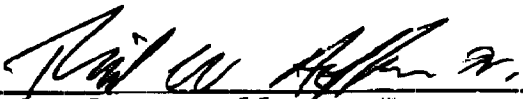
the full and exclusive right, title, and interest in and to the said invention in the United States and its territorial possessions, and in all foreign countries with all rights under the International Convention including the right to claim priority, and the entire and exclusive right, title, and interest in and to any and all Letters Patent which may be granted therefor 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.

We, therefore, authorize and request the Patent Office officials in the United States and in any and all foreign countries to issue any and all Letters Patent when granted, solely to the said

ESSENTIAL RESEARCH, INC.

for its sole use, and that of its successors, and assigns.

Signed at Cleveland, OH, on this 5th day of November, 1998.


Richard W. Hoffman, Jr.

STATE OF OHIO)
) : SS
COUNTY OF CUYAHOGA)

Personally appeared before me this day, the above named Richard W. Hoffman, Jr., to me personally known, who acknowledged that he signed the foregoing instrument for the uses and purposes therein mentioned, and that the same is his free act and deed.

In testimony whereof, I have hereunto set my hand and affixed my seal, this 5th day of November, 1998.



Notary Public

KATHLEEN A. MAUSAR
NOTARY PUBLIC, STATE OF OHIO
Recorded in Cuyahoga County
My Comm. Expires Sept. 27, 2001

(Seal)

Signed at Cleveland, Ohio, on this 5th day of November, 1998.

David M. Wilt
David M. Wilt

STATE OF OHIO)
) : SS
COUNTY OF CUYAHOGA)

Personally appeared before me this day, the above named David M. Wilt, to me personally known, who acknowledged that he signed the foregoing instrument for the uses and purposes therein mentioned, and that the same is his free act and deed.

In testimony whereof, I have hereunto set my hand and affixed my seal, this 5th day of November, 1998.

Kathleen A. Mausar
Notary Public

(Seal)

KATHLEEN A. MAUSAR
NOTARY PUBLIC, STATE OF OHIO
Recorded in Cuyahoga County
My Comm. Expires Sept. 27, 2001

LI.ASS