



10-22-1998



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To the Assistant Commissioner for Patents. Please record the attached documents or copy thereof.

1. Name of conveying party(ies):

OSRAM SYLVANIA INC.

Additional name(s) of conveying party(ies) attached? [] Yes [X] No

2. Names and address of receiving party(ies):

Name: Old Dominion University
Street Address:
City, State, ZIP: Norfolk, Virginia 23529-0013

Additional name(s) & address(es) attached? [] Yes [X] No

3. Nature of Conveyance:

[X] Assignment [] Merger
[] Security Agreement [] Change of Name
[] Other

Execution Date: October 5, 1998

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s): 08/901,195 filed 7/28/97 B. Patent No.(s): 5,686,789

Additional numbers attached? [] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Carlo S. Bessone
OSRAM SYLVANIA INC.
Street Address: 100 Endicott Street
City, State, ZIP: Danvers, Massachusetts 01923

6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41 and 1.21(h)): \$ 40.00

[] Enclosed
[X] Authorized to be charged to deposit account

8. Deposit account number: 15-0685

(Attach duplicate copy of this page if paying by deposit account)

9. Statement and signature.

To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.

Carlo S. Bessone
Name of Person Signing

Carlo S. Bessone
Signature

10/6/98
Date

Total number of pages including cover sheet, attachments and document: [4]

For: U.S. and/or Foreign Rights
For: U.S. Application or
 U.S. Provisional Application
For: U.S. Patent
For: PCT Application
By: Inventor(s) or Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

Inventor(s) or person(s) or
entity(ies) who own the
invention

OSRAM SYLVANIA INC.

(type or print name(s) of ASSIGNOR(S))

100 Endicott Street

Address

Danvers, Massachusetts 01923

Nationality

*(if assignment is by person or entity to whom invention was previously assigned
and this was recorded in PTO, add the following)*

Recorded on 10/30/95

Reel 7688

Frame 0670

hereby sells, assigns and transfers to

ASSIGNEE:

Old Dominion University

(type or print name(s) of ASSIGNEE(S))

Norfolk, VA 23529

Address

Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

- the entire right, title and interest
 an undivided fifty percent (50%) interest

for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

and in all foreign countries, including all rights to claim priority,
in and to any and all improvements which are disclosed in the invention entitled:
Discharge Device Having Cathode With Micro Hollow Array

Name of inventor(s) Karl H. Schoenbach, Wojciech W. Byszewski,
Frank E. Peterkin and Amin N. Dharamsi

(check and complete (a), (b), (c), (d), (e), (f), or (g))

and which is found in (37 C.F.R. § 3.21)

- (a) U.S. patent application executed on even date herewith
(b) U.S. patent application executed on _____
(c) U.S. provisional application naming the above inventor(s) for the above-entitled invention.

Express mail label no.: _____

Mailed: _____

- To comply with 37 C.F.R. § 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.

(d) U.S. application no. 08 / 901,195
filed on July 28, 1997

(e) International application no. PCT/ _____ / _____

(f) U.S. patent no. 5,686,789 issued November 11, 1997

- A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (g), if foreign application(s) is also being assigned)

(g) and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

(Assignment of Invention [16-3]—page 2 of 3)

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 5th day of October, 1998
Date of signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Date:

James L. Ray
Signature of ASSIGNOR(S)

Date:

Vice President and General Counsel

Date:

Date:

(if ASSIGNOR is a legal entity, complete the following information)

(type or print the name of the above person authorized to sign on behalf of ASSIGNOR)

Title

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 U.S.C. § 261. Use next page if notarization is desired.

Notarization or Legalization Page Added.

(Assignment of Invention [16-3]—page 3 of 3)