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1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. YAMAMOTO, Takeshi

3.

5.

7.

2.

4.

6.

8.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

COPY/TRANSLANCE

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: KABUSHIKI KAISHA TOSHIBA

ADDRESS: 72 Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa-ken, Japan

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

08,991,403

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST

EXEC. DATE: December 2, 1997

☐ CHANGE OF NAME☐ VERIFIES TRANSLATION☐ SECURITY☐ MERGER☒ OTHER: CORRECTION

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) December 2, 1997

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NOA. PAT. APP. NO.(S)
series code/serial
no

M#

1st INVENTOR
if not in item 1

B. PATENT NO.(S)

M#

1st INVENTOR
if not in item 1

08/991,403

244397

5. Name & Address of Party to Whom Correspondence
Concerning Document Should be Mailed:Cushman Darby & Cushman
Intellectual Property Group of
Pillsbury Madison & Sutro LLP
1100 NEW YORK AVENUE, N.W.
NINTH FLOOR, EAST TOWER
WASHINGTON, D.C. 20005-3913

6. NUMBER INVOLVED:

APPLNS 1 + PATS: = TOTAL 1

7. AMOUNT OF FEE ENCLOSED: (Code 581)

ABOVE TOTAL x \$40 = \$40.

5.5 ATTY DKT:

244397

9750-US

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE
INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975

UNDER ORDER NO

70120

244397

MATTER NO.

CLIENT REF.

dup. sheet not required

CLIENT NO.

MATTER NO.

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.

Signature

Attorney: Glenn J. Perry

Reg. No. 28458

Atty/Sec: GGJP/bg

TEL: (202) 861-3070

Date: September 24, 1998

FAX: (202) 822-0944

10. Total number of pages including this
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2

FILE WITH PTO RETURN RECEIPT (CDC-103A)

PATENT

REEL: 9474 FRAME: 0188

BOX ASSIGNMENTS

12/16/97

06-19-1998

OR TRADEMARKS

TO THE HONORABLE COMMISSIONER OF PATENTS AND
SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENT

1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. YAMAMOTO, Takeshi

3.

5.

7.

2.

4.

6.

8.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: KABUSHIKI KAISHA TOSHIBA

ADDRESS: 72 Horikawa-cho, Saiwai-ku, Kawasaki-shi, Japan

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST

EXEC. DATE: December 2, 1997

☐ CHANGE OF NAME ☐ VERIFIES TRANSLATION☐ SECURITY ☐ MERGER ☐ OTHER:EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND
ASSIGNMENT DIFFER SEE ATTY!) December 2, 19974.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NO

A. PAT. APP. NO.(S) series code/serial no	M#	1 st INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 st INVENTOR if not in item 1

5. Name & Address of Party to Whom Correspondence
Concerning Document Should be Mailed:

Cushman Darby & Cushman
Intellectual Property Group of
Pillsbury Madison & Sutro LLP
1100 NEW YORK AVENUE, N.W.
NINTH FLOOR, EAST TOWER
WASHINGTON, D.C. 20005-3918

6. NUMBER INVOLVED:

APPLNS 1 + PATS: = TOTAL 1

7. AMOUNT OF FEE ENCLOSED: (Code 581)

ABOVE TOTAL x \$40 = \$40.

5.5 ATTY DKT:

244397

9750-US

MATTER NO.

CLIENT REF.

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE
INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975

UNDER ORDER NO

70120

244397

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CLIENT NO.

MATTER NO.

02/16/1998 ATTY DKT: 00000003 06991403
05 FC:581

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.

06/17/1998 SSMITH 00000003 06991403

01 FC:581

Signature

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cover sheet, attachments and document
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2

Attorney: Glenn J. Perry

Reg. No. 28458

Atty/Sec: GJP/sdm

TEL: (202) 861-3070

Date: DECEMBER 16, 1997

FAX: (202) 822-0944

FILE WITH PTO RETURN RECEIPT (CDC-103A)

CDC-114X 11/1996

PATENT
REEL: 9474 FRAME: 0189

USA Patent Appln.
Sole or Joint

Atty. Dkt.

For Inventions made outside USA
executed with or after application
244397 9750-US
MA Client Ref.

NONPROVISIONAL

ASSIGNMENT
OF NONPROVISIONAL APPLICATION

NONPROVISIONAL

In consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, to wit:

INSERT
NAME(S) OF
INVENTOR(S)

(1) Takeshi YAMAMOTO	(4)
(2)	(5)
(3)	[] x box if continued on page 2

the receipt and sufficiency of which are hereby acknowledged by the undersigned who at the request of, hereby sell(s), assign(s) and transfer(s) unto:

INSERT
NAME(S) OF
ASSIGNEE(S)
& ADDRESS(ES)

KABUSHIKI KAISHA TOSHIBA
72, Horikawa-cho, Saiwai-ku,
Kawasaki-shi, Kanagawa-ken, Japan

(hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100, in the invention and all applications including any and all divisions, continuations, substitutes, and reissues thereof, and all resulting patents, known as

TITLE OF
INVENTION

FILTER CIRCUIT

for which the undersigned executed an application for Letters Patent of the United States of America:

NOTE → →
(Complete
line A, B and/or C)

(A) ☒ even date herewith

(B) ☐ on

(C) ☐ in U.S. Appln. No. / filed

AND the undersigned hereby authorize(s) and request(s) the United States Commissioner of Patents and Trademarks to issue said Letters Patent to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree(s) that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE.

AND the undersigned hereby agree(s) to testify and execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

NOTE → → The undersigned hereby authorize(s) Cushman Darby & Cushman Intellectual Property Group of Pillsbury Madison & Sutro, of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

INVENTOR(S)

DATE SIGNED

WITNESSES

1) Takeshi Yamamoto
Name: Takeshi YAMAMOTO

Dec. 2, 1997

Saichi Suyama
Saichi SUYAMA

2) _____
Name: _____

3) _____
Name: _____

4) _____
Name: _____

5) _____
Name: _____

IF ADDITIONAL INVENTORS, check box ☐ and continue on page 2.