	COVER SHEET U.S. DEPARTMENT OF COMMERCE	
Form PTO-1595 RECORDATION FORM	U.S. Patent and Trademark Office	
(Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002)  PATENTS ONLY		
	<u></u>	
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.		
Name of conveying party(ies):	Name and address of receiving party(ies)	
1. Yao-Hwan Kao	Name: Taiwan Semiconductor Manufacturing Co., Ltd.	
2. Jia-Sheng Lee	Internal Address:	
3. De-Yuan Lu	Internal Address.	
4. Ming-Fa Chen Additional name(s) of conveying party(ies) attached?  Yes  No  No		
	1	
3. Nature of conveyance:		
Assignment Merger	Street Address: No. 8, Li-Hsin Road 6	
Security Agreement Change of Name		
Other	Science Based Industrial Park	
	City: Hsin-ChuState:Zip:	
]	City: HSiti-Citu State: Zip: Zip: Country: Taiwan 300-77 R.O.C.	
Execution Date: 3/22/2004	Additional name(s) & address(es) attached? Yes V	
4. Application number(s) or patent number(s):		
If this document is being filed together with a new ann	lication, the execution date of the application is:	
A. Patent Application No.(s) 10/810,978	B. Patent No.(s)	
A. Patent Application No.(s) 10/010,070	D G.G	
	attached? Yes V No	
5. Name and address of party to whom correspondence	6. Total number of applications and patents involved:	
concerning document should be mailed:	7. Total fee (37 CFR 3.41)\$ 40.00	
Name: William H. Murray, Esquire		
Internal Address: Duane Morris LLP	Enclosed	
menta radioos.	Authorized to be charged to deposit account	
	04-1679	
1	a Danasit account number	
One Discussion Plants	8. Deposit account number:	
Street Address:_One Liberty Place		
But a late of the same of the		
Clty: Philadelphia State: PA Zip: 19103		
DO NOT US	E THIS SPACE	
9. Signature.		
Λ.	/	
1	1212	
Gerry K. Kita	08/4/04 Date	
Name of Person Signing	Signature Date	
Total number of pages including ∞	over sheet, attachments, and documents: 4	

Serial No. 10/810,978 Filed: 03/26/2004

EXPRESS MAIL LABEL NO.: EV 306255333 US

ATTORNEY DOCKET NO. N1085-00220 [TSMC2003-0307/T\$MC2003-0348]

## ASSIGNMENT AND AGREEMENT

For value received, we, Yao-Hwan Kao, Jia-Sheng Lee, De Yuan Lu, and Ming-Fa Chen hereby sell, assign and transfer to Taiwan Semiconductor Manufacturing Co., Ltd., with its principal place of business located at No. 8, Li-Hsin Road 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, Republic of China, and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to ADJUSTABLE EXHAUST FLOW FOR THERMAL UNIFORMITY described in an application for Letters Patent of the United States and all the rights and privileges in said application and under any and all Letters Patent and any divisions, continuations, continuations-in-part, reexamination certificates, reissues, and extensions thereof that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Taiwan Semiconductor Manufacturing Co., Ltd. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Taiwan Semiconductor Manufacturing Co., Ltd. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Taiwan Semiconductor Manufacturing Co., Ltd. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Taiwan Semiconductor Manufacturing Co., Ltd. in the United States and in all countries foreign to the United States, or to such nominees as Taiwan Semiconductor Manufacturing Co., Ltd. may designate.

P[-][\1181258.1

1

EXPRESS MAIL LABEL NO.: EV 306255333 US

ATTORNEY DOCKET NO. NI085-00220 ITSMC2003-0307/TSMC2003-0348]

We agree that, when requested, we shall, without charge to Taiwan Semiconductor Manufacturing Co., Ltd. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

Inventor	TAT_	1
INVENTOR	IND.	- 1

Dated: 3/22/2004

Yao-Hwan Kao

Residence: No. 48, Lang 147, Baoxin Rd, Baushan Shiang,

Heinday county 308, Taiwan (R.O.C)

Inventor No. 2

Dated: 3/r/roy Jea-Shong Lee

Residence: SF., No.3, Lane 29, Fucun St., Jhongli City,
Taoyuan County 320, Taiwan (R.O.C.)

Inventor No. 3

Dated: 7004.3.77.

De-Yuan Lu

Residence: 2F., No. 14, Lane 397, Vesing E. Rd., Shihlin District,

Taipei City III. Taiwan (R.O.C.)

PHIM181258.1

2

EXPRESS MAIL LABEL NO.: EV 306255333 US

ATTORNEY DOCKET NO. N1085-00220 [TSMC2003-0307/TSMC2003-0348]

Inventor No. 4

Dated: <u>100は、ら、アン</u>

Ming-Fa Chen

Residence:

County 302, Taiwan (R.O.C)

PH1\1181258.1

3