FORM PTO-1595 (Rev. 10/02) OMD No. 0651-0011 (exp. 6/30/2005) PATENTS	S. DEPARTMENT OF COMMERCE Patent and Trademark Office
To the Honorable Commissioner of Patents and Trademarks. Plea	ase record the attached original documents or copy thereof
Name of conveying party(ies):	
Tinku Acharya; Bhargab B. Bhattacharya; Arindam	2. Name and address of receiving party(ies):
Biswas; Partha Bhowmick; Arijit Bishnu; Sandip Das; Malay K. Kundu; C. A. Murthy; Subhas C. Nandy	Name: Intel Corporation
Additional name(s) of conveying party(ies) attached? ☑ No ☐ Yes	Internal Address: 2200 Mission College Boylevand
	Street Address: 2200 Mission College Boulevard
3. Nature of Conveyance:	
☐ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other	City: Santa Clara State: CA Zip: 95052
Execution Date: 4/7/2004 4/12/2004 4/20/2004	Additional name(s)& address(es) attached? \[\subseteq No \subseteq Yes
Application number(s) or patent number(s): If this document is being filed together with a new application	n, the execution date of the application is:
A. Patent Application No.(s)	B. Patent No.(s)
10/734,335	B. Patent No.(s)
Additional numbers atta	ached? No Yes
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved.
Name: Blakely, Sokoloff, Taylor & Zafman LLP	7. Total Fee (37 CFR 3.41)\$_40.00
Internal Address:	☐ Enclosed ☐ Authorized to be charged to deposit account
Street Address: 12400 Wilshire Boulevard	
7th Floor City: Los Angeles State: CA ZIP: 90025	8. Deposit Account Number: 02-2666
Oity. Dos raigotos Otato. Ott Zii . 20025	(Attach duplicate copy of this page if paying by deposit account)
DO NOT US	SE THIS SPACE
9. Statement and signature.	
	f correct and any attached copy is a true copy of the original document
GTOM11 00000086 10734335	
40.00 ap	$=$ ∂n
Eric T. King	
Name of Person Signing	Signature Date
Total number of pages including cover sh	eet, attachments, and document: 6

Mail documents to be recorded with required cover sheet information to:
Mail Stop Assignment Recordation Services
Director of the US Patent and Trademark Office
P.O. Box 1450

Alexandria, VA 22313-1450

Docket No. 42P14839

01 FC:8021

Attorney's Docket No.: 42P14839

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the

Tinku Acharya; Bhargab B. Bhattacharya; Arindam Biswas; Partha Bhowmick; Arijit Bishnu; Sandip Das; Malay K. Kundu; C. A. Murthy; Subhas C. Nandy

hereby sell, assign, and transfer to:

Intel Corporation

a Corporation of Delaware, having a principal place of business at 2200 Mission College Boulevard, Santa Clara, Calif 95052 USA ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest fo States and all foreign countries, in and to any and all inventions and improvements that are disclosed in the applicati United States patent filed on December 11, 2003, and assigned Application No. 10/734,335 and is entitled:

Fingerprint Minutiae matching Using Scoring Techniques

and in and to said application and all design, utility, divisional, continuing, continuation-in-part, substitute, renewal, all other patent applications that have been or shall be filed in the United States and all foreign countries on any of sinventions and improvements; and in and to all original and reissued patents that have been or shall be issued in the States and all foreign countries on said inventions and improvements; and in and to all rights of priority from the filir United States applications;

agree that said Assignee may apply for and receive a patent or patents for said inventions and improvements in its o and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications on a said inventions and improvements; execute all rightful oaths, assignments, power of attorney, and other papers; com said Assignee, its successors, assigns, and legal representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal represent securing and maintaining proper patent protection for said inventions and improvements and for vesting title to said and improvements, and all applications for patents and all patents on said improvements, in said Assignee, its succe assigns, and legal representatives; and

42P14839 Page 1 of 2

PATENT REEL: 015289 FRAME: 0488 covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

Date		Name: Tinku Acharya
	4/12/04	Bharsal B. Bhattacher
Date		Name: Bhargab B. Bhattacharya
	4/12/04	formamais nas
Date	4/12/04	Name: Arindam Biswas
	4 12/04	Bartha Bhowmick
Date	• •	Name: Partha Bhowmick
Date		Name: Arijit Bishnu
	4/12/04	Sandip Rf
Date		Name: Sandip Das
	4/12/04	Malay Kwar Kudu
Date	į i i	Name: Malay K. Kundu
	4/12/04	CAHLT
Date		Name: C. A. Murthy
	4/12/04	Eulhas Chandon Nandy
Date	1	Name: Subhas C. Nandy
 Date		Name:
 Date	······	Name:

Assignment Document Return Address: BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 12400 Wilshire Boulevard, 7th Floor

Los Angeles, CA 90025 Telephone: (714) 557-3800

42P14839

Page 2 of 2

PATENT REEL: 015289 FRAME: 0489 coverions with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, other precentent affecting the rights and property herein conveyed has been made to others by the undersigned, and enabled the same as herein expressed is possessed by the undersigned.

Date Name: Bhargab B. Bhattacharya Name: Arindam Biswas Name: Partha Bhowmick Name: Arijit Bishau Date Name: Sandip Das Name: Malay K. Kundu	110/104	Name: Tinka Acharya
Date Name: Bhargab B. Bhattacharya Name: Ariudam Biswas Name: Partha Bhowmick Date Name: Arijit Bishau Date Name: Sandip Das Name: Malay K. Kundu	e , ,	Name: Tinku Acharya V
Date Name: Arijit Bishau Date Name: Arijit Bishau Date Name: Sandip Das Date Name: Malay K. Kundu	C	
Date Name: Partha Bhowmick Date Name: Arijit Bishnu Date Name: Sandip Das Date Name: Malay K. Kundu		
Date Name: Arijit Bishau Date Name: Sandip Das Date Name: Malay K. Kundu	f.	Name: Partha Bhowmick
Date Name: Sandip Das Date Name: Malay K. Kundu		Name: Arijit Bishnu
Date Name: Malay K. Kundu		
		Name: Malay K. Kundu
		Name C. A. Murthy
Dote Same: Subhas C. Nandy	te:	Name: Subhas C. Nandy
Date Name:		Name:

Assignment Document Return Address:
BLAKELY, SOKOLOFF, TAYLOR & ZAEMAN LLP
12400 Wilshire Boulevard, 7th Floor
Los Angeles, CA 90025
Telephone: (714) 557-3800

Each Inventor: Please Sign and Date Below:

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and to convey the same as herein expressed is possessed by the undersigned.

Date	Name: Tinku Acharya
Date	Name: Bhargab B. Bhattacharya
Date	Name: Arindam Biswas
Date	Name: Partha Bhowmick
20 April, 2004. Date	Name: Arijit Bishnu
Date	Name: Sandip Das
Date	Name: Malay K. Kundu
Date	Name: C. A. Murthy
Date	Name: Subhas C. Nandy
Date	Name:
Date	Name:

Assignment Document Return Address:
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
12400 Wilshire Boulevard, 7th Floor
Los Angeles, CA 90025
Telephone: (714) 557-3800

42P14839

Page 2 of 2

Appendix A

I hereby appoint with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith, BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP, a firm including: William E. Alford, Reg. No. 37,764; Farzad E. Amini, Reg. No. 42,261; Vincent H. Anderson, Reg. No. 54,962; Anthony H. Azure, Reg. No. 52,580; W. Thomas Babbitt, Reg. No. 39,591; Jordan M. Becker, Reg. No. 39,602; Todd M. Becker, Reg. No. 43,487; Michael A. Bernadicou, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 25,831; R. Alan Burnett, Reg. No. 46,149; Gregory D. Caldwell, Reg. No. 39,926; Cory G. Claassen, Reg. No. 50,296; Thomas M. Coester, Reg. No. 39,637; Mimi D. Dao, Reg. No. 45,628; Stephen M. De Klerk, Reg. No. 46,503; Daniel M. De Vos, Reg. No. 37,813; Elena B. Dreszer, Reg. No. 55,128; Sanjeet Dutta, Reg. No. 46,145; Nathan P. Elder, Reg. No. 55,150; Tarek N. Fahml, Reg. No. 41,402; Thomas S. Ferrill, Reg. No. 42,632; Adam Furst, Reg. No. 51,710; Angelo J. Gaz, Reg. No. 45,907; Andre M. Gibbs, Reg. No. 47,593; James Y. Go, Reg. No. 40,621; Jason R. Graff, Reg. No. 54,134; Arlen M. Hartounian, Reg. No. 52,997; Jeffery Scott Heileson, Reg. No. 46,765; James A. Henry, Reg. No. 41,064; Willmore F. Holbrow III, Reg. No. 41,845; Sheryl Sue Holloway, Reg. No. 37,850; George W Hoover II, Reg. No. 32,992; Eric S. Hyman, Reg. No. 30,139; Aslam A. Jaffery, Reg. No. 51,841; Walter T. Kim, Reg. No. 42,731; Eric T. King, Reg. No. 44,188; Mark A. Kupanoff, Reg. No. 55,349; Steven Laut, Reg. No. 47,736; Suk S. Lee, Reg. No. 47,745; Gordon R. Lindeen III, Reg. No. 33,192; Jan Carol Little-Washington, Reg. No. 41,181; Joseph Lutz, Reg. No. 43,765; Michael J. Mallie, Reg. No. 36,591; Andre L. Marais, Reg. No. 48,095; Paul A. Mendonsa, Reg. No. 42,879; Jonathan S. Miller, Reg. No. 48,534; Heather M. Molleur, Reg. No. 50,432; Richard A. Nakashima, Reg. No. 42,023; Thinh V. Nguyen, Reg. No. 42,034; Robert B. O'Rourke, Reg. No. 46,972; Daniel E. Ovanezian, Reg. No. 41,236; Philip A. Pedigo, Reg. No. 52,107; Marina G. Portnova, Reg. No. 45,750; Jon C. Reali, Reg. No. 54,391; James H. Salter, Reg. No. 35,668; William W. Schaal, Reg. No. 39,018; James C. Scheller, Reg. No. 31, 195; Kevin G. Shao, Reg. No. 45,095; Stanley W. Sokoloff, Reg. No. 25,128; Judith A. Szepesi, Reg. No. 39,393; Edwin H. Taylor, Reg. No. 25,129; Lisa Tom, Reg. No. 52,291; Mark C. Van Ness, Reg. No. 39,865; Thomas A. Van Zandt, Reg. No. 43,219; Mark R. Vatuone, Reg. No. 53,719; Lester J. Vincent, Reg. No. 31,460; John P. Ward, Reg. No. 40,216; Mark L. Watson, Reg. No. 46,322; Thomas C. Webster, Reg. No. 46,154; Chui-Kiu Teresa Wong, Reg. No. 48,042; and Norman Zafman, Reg. No. 26,250, my petent attorneys, and Chze Koon Chua, 53,831; Brent Vecchia, Reg. No. 48,011 and Lehua Wang, Reg. No. 48,023, my patent agents, with offices located at 12400 Wilshire Boulevard, 7th Floor, Los Angeles, California 90025, telephone (310) 207-3800; and James R. Thein, Reg. No. 31,710, my patent attorney, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith. I also appoint Alan K. Aldous, Reg. No. 31,905; Rob D. Anderson, Reg. No. 33,826; Shireen I. Bacon, Reg. No. 40,494; Michael R. Barre, Reg. No. 44,023; Jay P. Beale, Reg. No. 50,901; R. Edward Brake, Reg. No. 37,784; Ben Burge, Reg. No. 42,372; George Chen, Reg. No. 50,807; Glen B. Choi, Reg. No. 43,546; Kenneth Cool, Reg. No. 40,570; Ted A. Crawford, Reg. No. 50,610; Robert A. Diehl, Reg. No. 40,992; Jeffrey S. Draeger, Reg. No. 41,000; Cynthia Thomas Faatz, Reg No. 39,973; James S. Finn, Reg. No. 38,450; Sanjay S. Gadkari, Reg. No. 55,796; Christopher K. Gagne, Reg. No. 36,142; Sharmini N. Green, Reg. No. 41,410; Robert A. Greenberg, Reg. No. 44,133; Bradley A. Greenwald, Reg. No. 34,341; David L. Guglielmi, Reg. No. 55,229; Robert D. Hinchliffe, Reg. No. 55,268; Jeffrey B. Huter, Reg. No. 41,086; B. Delano Jordan, Reg. No. 43,698; Seth Z. Kalson, Reg. No. 40,670; Issac Lin, Reg. No. 50,672; David C. Lundmark, Reg. No. 42,815; Anthony M. Martinez, Reg. No. 44,223; Larry Mennemeier, Reg. No. 51,003; Molly A. Mccall, Reg. No. 46,126; Paul Nagy, Reg. No. 37,896; Michael J. Neshelwat, Reg. No. 47,819; Dennis A. Nicholls, Reg. No. 42,036; Kathy J. Ortiz, Reg. No. 54,351; Lanny L. Parker, Reg. No. 44,281; Cathy L. Peterson, Reg. No. 41,249; Michael D. Plimier, Reg. No. 43,004; Michael A. Proksch, Reg. No. 43,021; Kevin A. Reif, Reg. No. 36,381; Crystal D. Sayles, Reg. No. 44,318; Russell C. Scott, Reg. No. 43,103; Justin B. Scout, Reg. No. 54,431; Kenneth M. Seddon, Reg. No. 43,105; Mark Seeley, Reg. No. 32,299; Ami P. Shan, Reg. No. 42,143; David Simon, Reg. No. 32,756; Steven P. Skabrat, Reg. No. 36,279; Paul E. Steiner, Reg. No. 41,326; Joni D. Stutman-Horn, Reg. No. 42,173; David Tran, Reg. No. 50,804; John F. Travis, Reg. No. 43,203; Kerry D. Tweet, Reg. No. 45,959; Robert G. Winkle, Reg. No. 37,474; Rita M. Wisor, Reg. No. 41,382; Sharon Wong, Reg. No. 37,760; Steven D. Yates, Reg. No. 42,242; Calvin E. Wells; Reg. No. 43,256; and Charles K. Young, Reg. No. 39,435; my patent attorneys and my patent agents, of INTEL CORPORATION; with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

Docket No. 42P14839

RECORDED: 05/03/2004

PATENT REEL: 015289 FRAME: 0492