04-05-2001 U.S. Department of Commerce REC(Patent and Trademark Office **PATENT** 101669568 ginal document(s) or copy(ies) The mmissioner of Patents and Trau Submission Type Conveyance Type New License Resubmission (Non-Recordation) Document ID # Merger Security Agreement Correction of PTO Error Change of Name Reel# Frame # ☐ Corrective Document Other: Reel# Frame # Execution Date(s) Conveying Party(ies) 02012001 Hoffman, Robert L. 02012001 Parlan, Jonathan M. 2. 3. 4. 5. 6. Mark if Additional Names of Conveying Parties Attached Receiving Party Name Cisco Technology, Inc. Name a corporation of California Address 170 W. Tasman Drive Address Address San Jose 95134 State/Country Zip Code City Mark if Additional Names of Receiving Parties Attached **Correspondent Name and Address** The Law Office of Kirk D. Williams (Customer No. 26327) Telephone: 303-282-0151 Facsimile: 303-778-0748 1234 S. Ogden St. Attorney Docket No. 44801 Denver, CO 80210-1713 Enter the total number of pages of the attached conveyance document including any attachments: Application Number(s) or Patent Number(s) Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property). **Patent Numbers Patent Application Numbers** 09748645 Month Day Year If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor. Patent Cooperation Treaty (PCT) PCT **PCT** Enter PCT application number only if a U.S. Application PCT Number has not been assigned. PCT PCT PCT Enter the total number of properties involved: 1 **Number of Properties** Fee Amount Fee Amount for Properties Listed (37 CFR 3.41): \$40 09748645 Method of Payment: ⊠ Enclosed is check No. 2063 in the amount of \$40

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March 24, 2001

Date

/04/2001

Attorney Docket No. 44801 CUSTOMER NUMBER 26327 The Law Office of Kirk D. Williams Attorney at Law 1234 S. Ogden St. Denver, CO 80210

ASSIGNMENT

WHEREAS, WE, ROBERT L. HOFFMAN (OF 672 BRIARCLIFF CT., SANTA CLARA, CA 95051) AND JONATHAN M. PARLAN (OF 22367 STARLING DRIVE, LOS ALTOS, CA 94024), are the joint inventors of an invention entitled "METHOD AND APPARATUS FOR GENERATING AND CHECKING CYCLIC REDUNDANCY CODE (CRC) VALUES USING A CRC GENERATOR AND BINARY GALOIS FIELD MULTIPLIER" as described and claimed in the specification forming part of Application No. 09/748,645 for United States letters patent filed on DECEMBER 21, 2000;

WHEREAS, Cisco Technology, Inc. (hereinafter referred to as Assignee), a corporation of the State of California having a place of business at 170 W. Tasman Drive, San Jose, CA 95134 is desirous of acquiring the entire United States domestic and foreign right, title, and interest in and under the invention described in the patent application and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

Now, Therefore, in exchange for good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged, we sell, assign and transfer to the Assignee and the Assignee's legal representatives, successors and assigns the full and exclusive rights, title and interest in and to the invention in the United States and every foreign country and the entire right, title, and interest in and to the patent application and other such applications, including, but not limited to, provisional applications, non-provisional applications, continuations, continuations-inpart, divisionals, reissues, renewals, and extensions, that may be filed in the United States and every foreign country on the invention, and the patents or extensions thereof, both foreign and domestic, that may issue thereon, including the right to file foreign applications directly in the name of Assignee and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by Assignee and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by us had this assignment, transfer and sale not been made. We do hereby authorize and request the Commissioner of Patents and Trademarks to issue United States patents on said invention to Assignee.

WE DO HEREBY COVENANT and agree with Assignee that we will not execute any writing or do any act whatsoever conflicting with the terms of this assignment document set forth herein, and that we will at any time upon request, without further or additional consideration, but at the expense of the Assignee, execute such additional assignments and other writings and do such additional acts as the Assignee may deem necessary or desirable to perfect the Assignee's

METHOD AND APPARATUS FOR GENERATING AND CHECKING
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PATENT REEL: 011640 FRAME: 0319 enjoyment of this assignment, and render all necessary assistance in making application for and obtaining patents of the United States and of any and all foreign countries on the invention, including, but not limited to, provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, renewals, and extensions, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, including executing all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefore, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

WE have hereunder set our hands on the dates shown below.

Date 2/1/2001	ROBERT L. HOFFMAN
	ROBERT E. HOTTMEN
Date 2/1/2001	JONATHAN M. PARLAN
	JONATHAN M. PARLAN

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PATENT RECORDED: 03/27/2001 REEL: 011640 FRAME: 0320