Docket No.: ITL.0716US 08-12-2002 FORM PTO-1595 (Modified) HEET U.S. DEPARTMENT OF COMMERCE (Rev. 03-01) Patent and Trademark Office OMB No. 0651-0027 (exp.5/31/2002) P08A/REV03 Tab settings → → 102186610 To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Michael W. Altmann 7.01.02 Name: INTEL CORPORATION Issy Kipnis Address: 2200 MISSION COLLEGE BLVD. ☐ Yes 🛛 No Additional names(s) of conveying party(ies) 3. Nature of conveyance: Merger Assignment City: SANTA CLARA State/Prov.: CA ☐ Change of Name ☐ Security Agreement ZIP: 95052-8119 Country: USA ☐ Other Execution Date: July 30, 2002 ☐ Yes ⊠ No Additional name(s) & address(es) 4. Application number(s) or patent numbers(s): If this document is being filed together with a new application, the execution date of the application is: July 30, 2002 B. Patent No.(s) Patent Application No. Filing date ☐ Yes 🛛 No Additional numbers 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: Fred G. Pruner, Jr. ☒ Enclosed - Any excess or insufficiency should be 40,779 Registration No. credited or debited to deposit account Address: Trop, Pruner & Hu, P.C. Authorized to be charged to deposit account 8554 Katy Freeway, Suite 100 8. Deposit account number: 20-1504 (ITL.0716US) State/Prov.: TX PATENT TRADEMARK OFFICE City: Houston (Attach duplicate copy of this page if paying by deposit acco ZIP: 77024-1805 Country: USA DO NOT USE THIS SPACE To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true true. 9. Statement and signature. of the original document. Fred G. Pruner, Jr. Date Name of Person Signing Total number of pages including cover sheet, attachments, and Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments **PATENT** Washington, D.C. 20231 REEL: 13166 FRAME: 0932

Attorney Docket No. ITL,0718US P14177

ASSIGNMENT

WHEREAS, We, MICHAEL W. ALTMANN and ISSY KIPNIS, are joint inventors of PHASE LOCKED LOOP, application for United States Letters Patent which is executed of even date herewith; and

WHEREAS, INTEL CORPORATION, a corporation created and existing under and by virtue of the laws of the State of Delaware, is desirous of acquiring the entire right, title and Interest in and to the aforesaid invention throughout the world, and all right, title and interest in, to and under any and all Letters Patent of the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we hereby sell, assign, transfer and set over to INTEL CORPORATION, all right, title and interest in and to the said invention throughout the world, and said application for U.S. Letters Patent, and any and all divisions, continuations, and reissues thereof, and any and all Letters Patent of the United States and foreign countries which may be granted therefor, the same to be held and enjoyed by INTEL CORPORATION for its own use and benefit, and for the use and benefit of its successors, assigns, or other legal representatives, to the end of the term or terms for which said Letters Patent of the United States or foreign countries are or may be granted or reissued, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application and from any and all divisions, continuations, and reissues thereof, to INTEL CORPORATION, as assignee of our entire interest, and hereby covenant that we have the full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith.

And we further hereby covenant and agree that we will, at any time, upon request, execute and deliver any and all papers that may be necessary or desirable to perfect the title of said invention and to such Letters Patent as may be granted therefor, to INTEL CORPORATION, its successors, assigns, or other legal representatives and that if INTEL CORPORATION, its successors, assigns or other legal representatives shall desire to file any divisional or continuation applications or to secure a reissue of such Letters Patent, or to file a disclaimer relating thereto, will upon request, sign all papers, make all rightful oaths and do all lawful acts requisite for the filing of such divisional or continuation application, or such application for reissue and the procuring thereof, and for the filing of such disclaimer, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

PATENT REEL: 13166 FRAME: 0933 And we do further covenant and agree that we will, at any time upon request, communicate to INTEL CORPORATION, its successors, assigns or other legal representatives, such facts relating to said invention and Letters Patent or the file history thereof as may be known to us, and testify as to the same in any interference or other litigation when requested so to do, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

EXECUTED THIS 34 day of 54-4, 2002.

Name: MICHAEL W. ALTMANN

EXECUTED THIS 30 day of ______, 2002

Name: ISSY KIPNIS

ITL0716US (P14177)

RECORDED: 07/31/2002

-2-

PATENT REEL: 13166 FRAME: 0934