PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4382273

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MAXIM INTEGRATED PRODUCTS, INC.]	07/23/2015

RECEIVING PARTY DATA

Name:	QUALCOMM TECHNOLOGIES, INC.
Street Address:	5775 MOREHOUSE DRIVE
City:	SAN DIEGO
State/Country:	CALIFORNIA
Postal Code:	92121

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15476745

CORRESPONDENCE DATA

Fax Number: (510)663-0920

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 5106631100

Email: nazadimani@wavsip.com

WEAVER AUSTIN VILLENEUVE & SAMPSON LLP Correspondent Name:

Address Line 1: 555 12TH STREET, SUITE 1700 Address Line 4: OAKLAND, CALIFORNIA 94607

ATTORNEY DOCKET NUMBER:	QUALP362BC2US
NAME OF SUBMITTER:	MICHAEL L. DAY
SIGNATURE:	/ Michael L. Day /
DATE SIGNED:	04/24/2017

Total Attachments: 34

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PATENT ASSIGNMENT

This PATENT ASSIGNMENT (the "Assignment") is entered into effective as of June 23, 2015, by and between Qualcomm Technologies, Inc., a Delaware corporation ("Purchaser") and Maxim Integrated Products, Inc., a Delaware corporation ("Seller" and "Assignor"). Capitalized terms used but not defined herein have the meanings ascribed to them in the Asset Purchase Agreement (defined below).

WHEREAS, the Assignor and the Assignee are parties to that certain Asset Purchase Agreement, dated as of June 23, 2015 (the "Asset Purchase Agreement"), pursuant to which Assignor has agreed to, among other things, sell, assign, transfer, convey, and deliver to Assignee all of Assignor's right, title, and interest in and to the Assigned Patents for consideration and upon the terms and conditions set forth in the Asset Purchase Agreement; and

NOW, THEREFORE, pursuant to the Asset Purchase Agreement, and for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

- Conveyance. Other than, and subject to, the Retained Rights as set forth in the Asset 1. Purchase Agreement, Assignor hereby sells, assigns, transfers, conveys, and delivers to Assignee all of Assignor's right, title and interest in and throughout the United States of America, its territories and all foreign countries, in, to and under the issued patents, patent applications and invention disclosure forms listed on Schedule A hereto, including all reissues, divisionals, continuations, continuations-in-part, revisions, reexaminations, extensions and counterparts (whether foreign or domestic) claiming priority to or based on any of the foregoing items, together with all patents issuing therefrom, all inventions and improvements claimed or described in any of the foregoing, all rights to collect royalties, products and proceeds in connection with any of the foregoing (collectively, the "Assigned Patents" provided, that the meaning and content of Assigned Patents in this Assignment shall be identical to, and not broader than, the meaning and content of the term "Assigned Patents" in the Asset Purchase Agreement), and all rights to sue and bring other claims for past, present and future infringement, misappropriation or other violation of any of the foregoing and all rights to recover damages (including attorney's fees and expenses) or lost profits in connection therewith.
- 2. <u>Recordation</u>. Assignor hereby requests the United States Patent and Trademark Office Commissioner for Patents and any other applicable governmental entity or registrar (including any applicable foreign or international office or registrar), to record Assignee as the assignee and owner of the Assigned Patents. Assignor further authorizes the respective patent office or governmental agency in each other jurisdiction to issue any and all patents or certificates of invention which may be granted upon any of the Assigned Patents in the name of Assignee, as the assignee to the entire interest therein.

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3. <u>Information and Assistance</u>.

- 3.1 Upon Assignee's reasonable request, subject to Assignee's compensation of Assignor's reasonable costs related thereto, Assignor shall execute, acknowledge and deliver all such other instruments and documents and shall take all such other actions reasonably necessary or required by law to consummate and make fully effective the transaction contemplated by this Assignment.
- 3.2 If Assignee is unable for any reason to secure Assignor's signature to any document required to file, prosecute, register or memorialize the assignment of any rights under any Assigned Patents as provided under this Assignment, Assignor hereby irrevocably designates and appoints Assignee and Assignee's duly authorized officers and agents as Assignor's agents and attorneys-in-fact to act for and on Assignor's behalf and instead of Assignor to take all lawfully permitted acts to further the filing, prosecution, registration, memorialization of assignment, issuance and enforcement of rights under such Assigned Patents, all with the same legal force and effect as if executed by Assignor. The foregoing is deemed a power coupled with an interest and is irrevocable.
- 4. <u>Successors and Assigns</u>. This Assignment and all the provisions hereof shall be binding upon and shall inure to the benefit of the parties hereto and their respective successors and permitted assigns and nothing herein express or implied shall give or be construed to give to any person, other than the parties hereto and their respective successors and permitted assigns, any legal or equitable rights hereunder.
- 5. <u>Counterparts</u>. This Assignment may be executed in one or more counterparts, all of which shall be considered one and the same agreement and shall become effective when one or more counterparts have been signed by each of the parties and delivered to the other parties; it being understood that all parties need not sign the same counterpart and such counterparts may be delivered by the parties hereto via facsimile or electronic transmission.
- 6. <u>Section Headings</u>. The section headings contained in this Assignment are for reference purposes only, and shall not in any way affect the meaning or interpretation of this Assignment.
- 7. <u>Asset Purchase Agreement Controls</u>. This Assignment is provided pursuant to the Asset Purchase Agreement, to which reference is made for a further statement of the rights and obligations of Assignors and Assignee with respect to the Assigned Patents. Nothing contained in this Assignment shall be deemed to modify, supersede, enlarge, limit or affect the rights of any person under the Asset Purchase Agreement. If any provision of this Assignment is inconsistent or conflicts with the Asset Purchase Agreement, the Asset Purchase Agreement shall control.
- 8. <u>No Waiver.</u> No modification, waiver or termination of this Assignment shall be binding unless executed in writing by each of the parties hereto. No waiver of any of the provisions of this Assignment shall be deemed or shall constitute a waiver of any other provision hereof, nor shall such waiver constitute a continuing waiver unless otherwise expressly provided.

REEL: 036526 FRAME: 0464 REEL: 042320 FRAME: 0078 9. Governing Law. This Assignment shall be governed by, and construed and enforced in accordance with, the laws of the State of California other than conflict of laws principles thereof directing the application of any law other than that of California. The parties hereto irrevocably submit to the exclusive jurisdiction of the United States District Courts in California (or, if subject matter jurisdiction in that court is not available, in the State courts of California) for all disputes between the parties hereto arising out of or relating to this Assignment. The parties hereby consent to and agree to submit to the jurisdiction of such courts. Each of the parties hereto waives, and agrees not to assert in any such dispute, to the fullest extent permitted by Applicable Laws, any claim that (a) such party is not personally subject to the jurisdiction of such courts, (b) such party and such party's property is immune from any legal process issued by such courts or (c) any litigation commenced in such courts is brought in an inconvenient forum.

[Signatures appear on next page]

REEL: 036526 FRAME: 0465 REEL: 042320 FRAME: 0079 IN WITNESS WHEREOF, the parties have executed this Patent Assignment on the day and year first above written.

ASSIGNEE:	ASSIGNOR:
[Qualcomm Technologies, Inc] By:	[Maxim Integrated Products, Inc.] By: Name: Mark Casper Title: Vice President, Legal
CERTIFICATE OF ACKNOWLEDGEMENT	
State of:	
County of:	
On, 2015, before me,	(Name of Notary Public)
personally appeared(Name of S	Samer
who provided me on the basis of satisfactory evide to the within instrument and acknowledged to me authorized capacity, and that by his/her signature obehalf of which the person acted, executed the install certify under PENALTY OF PERJURY under that the foregoing paragraph is true and correct.	ence to be the person whose name is subscribed that he/she executed the same in his/her on the instrument the person, or the entity upon rument.
WITNESS my hand and official seal:	
Signature:	(Seal)

[SIGNATURE PAGE TO PATENT ASSIGNMENT]

REEL: 036526 FRAME: 0466 REEL: 042320 FRAME: 0080

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California County of	Y
On <u>July 27, 2015</u> before me,	Le Twet Va , Notawy Public (Insert name and title of the officer)
personally appeared	edged to me that he/she/they executed the same in his/her/their signature(s) on the instrument the
I certify under PENALTY OF PERJURY under the paragraph is true and correct.	e laws of the State of California that the foregoing
WITNESS my hand and official seal.	LE TUYET VU Commission # 2000557 Notary Public - California 2 Santa Crara County My Contin Expires Dec 3 2016
Signature AUA	(Seal)

PATENT REEL: 036526 FRAME: 0467 REEL: 042320 FRAME: 0081

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

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	ficate verifies only the identity of the individual who signed the at the truthfulness, accuracy, or validity of that document.
State of California County of San Diego On August 14, 2015 before me,) Norman Louis Bautista, Notary Public
On belore me,	Here Insert Name and Title of the Officer
personally appeared Venkata Renduchinta	
personally appeared	Name(s) of Signer(s)
subscribed to the within instrument and ackno	
	I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.
NORMAN LOUIS BAUTISVA Commission # 2019823	WITNESS my hand and official seal.
Notary Public - California	
San Siego County	Signature Mille Mars Talle
My Comm. Expires Apr 14, 2017	Signature / Signature of Notary Public
Place Notary Seal Above	
Though this section is optional, completing the	OPTIONAL his information can deter alteration of the document or his form to an unintended document.
Description of Attached Document Title or Type of Document: Patent Assignment	t Document Date: 6/23/2015
and the state of t	han Named Above:
apacity(ies) Claimed by Signer(s) igner's Name; Venkata Renduchintala	Signer's Name:
Corporate Officer — Title(s):	Signer's Name: Gorporate Officer — Title(s):
Partner - C Limited C General	☐ Partner — ☐ Limited ☐ General
Individual Attorney in Fact	☐ Individual ☐ Attorney In Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
(Other: Signer Is Representing: <u>(এলেএ এক কং</u>	
TECHNOLOGIES INC	

@2014 National Notary Association • www.NationalNotary.org • 1-800-US NOTARY (1-800-876-6827) Item #5907

REEL: 036528 FRAME: 0468 REEL: 042320 FRAME: 0082

United States

Schedule A

MIDAWI-0882	Maxn-0891	Maxima Cost	MAXM-0565	At Girey Re
NOISE CANCELLATION TECHNIQUE FOR CAPACITIVE TOUCHSCREEN CONTROLLER USING DIFFERENTIAL SENSING	SYSTEM FOR AND METHOD OF TRANSFERRING CHARGE TO CONVERT CAPACITANCE TO VOLTAGE FOR TOUCHSCREEN CONTROLLERS	METHOD AND APPARATUS FOR APPARATUS FOR DYNAMIC RANGE OF A TOUCHSCREEN CONTROLLER	SYSTEM AND METHOD FOR INTERFACING APPLICATIONS PROCESSOR TO TOUCHSCREEN DISPLAY FOR REDUCED DATA TRANSFER	Title
issued	issued	Issuéd	Allowed	Statue
12/986,882	12/985,841	12,985,776	12/620,430	Application
1/7/2011	1/7/2013	177/2011	11/17/2009	riling bate
7/22/2013	1/7/2014	12/3/2013		SaleDate
2011026tB07	20110261006	20110251005	20100149121	Publication Number
8,199,356	8,624,870	8,590,167		Patent
E	U _S	S.	US	Country

PATENT REEL: 036526 FRAME: 0469 REEL: 042320 FRAME: 0083

6660-WXVM	MAXM-DOSD	NIAXM-0948	MANN-0947.2	MAXM-0947.1	MAXN-0945.2	MAXM-0946.1	MAXM-0944	MAXM-0893
Touch PANEL TESTING USING MUTUAL CAPACITOR MEASUREMENTS	CANCELLING TOUCH PANEL GESSET OF A TOUCH PANEL SENSOR	BACKGROUND NOISE MEASUREMENT AND FREQUENCY SELECTION IN TOUCH PANEL SENSOR SYSTEMS	CAUBRATION FOR MIXED-SIGNAL INTEGRATIOR ARCHITECTURE	MIXED-SIGNAL INTEGRATOR ARCHITECTURE	CONTINUOUS TEAE CORRELATOR ARCHITECTURE	CAPACITIVE TOUCH SENSE . ARCHITECTURE	CIRCUITS DEVICES AND INETHODS HAWING PIPELINED CAPACITANCE SENSING	USE OF RANDOM SAMPLING TECHNIQUE TO REDUCE FINGER- COUPLED NOISE
Allowed	Published	Issued	ssued	Issued	iswed	gened	Allowed	Published
13/472,009	13/402,485	.13/401,995	13/404,817	13/404,722	13/404,594	13/403,873	13/403.885	12/987,008
5/15/2012	2/22/2012	2/32/2012	2/2#/2012	2/24/2012	2/24/2012	2/23/2012	2/23/2012	1/7/2011
		10/14/2014	2/25/2014	11/5/2013	2/4/2014	11/4/2014		
	201,202,08222	20120217978	20125/218025	20120274404	201202:2223	20130162586	20120217981	Number 20110261008
		8,860,432	8,659,343	8,575,988	8,643,619	8,878,797		
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PATENT REEL: 036526 FRAME: 0470 REEL: 042320 FRAME: 0084

MAX	MAXX	X,AX		MAX	3	
MAXM-1086	M2XXI-1019	MAXM-1009	Masw-1004	MAXM-1003	MAXM-1002	
CAPACITIVE TOUCH PANEL HAVING PROTRUSIONS FORMED BETWEEN DRIVE AND/OR SENSOR ELECTRODES	HOVER PALM AND SPURIOUS REJECTION FOR MUTUAL CAPACITANCE TOUCH CONTROLLERS	INTER-SYMBOL INTERFERENCE REDUCTION FOR MUTUAL & SELF CAPACITANCE PANEL	MUTUAL CAPACITANCE LARGE PANEL PHASE SHIFT MITIGATION	DIGITAL FILTERING AND SPREAD SPECTRUM BASED INTERFERENCE MITIGATION FOR MUTUAL & SELF CAPACITANCE PANEL	HADAMIARD MATRIX BASED PROJECTED MUTUAL CAPACITANCE TOUCH PANEL DECODING	11116
Allowed	Allowed	Published	Allowed	Issued	panssi	Seaus
13/370,087	13/ 479.4 59	13/479,428	13/480,395	13/480,414	13/480.357	Application
2/9/2012	5/24/2012	5/24/2012	5/24/2012	5/24/2012	5.74/701:2	Filing Date
				3/3/2015	3/17/2015	5510 0378
20130207923		20120313890				Pablication Number
				8,970,544	8,982,091	Patent
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FINAL VERSION

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MAXM-1293	МАЖИ-1269	MAXM-1262	MASIN-7212	MAXM-1209	MAXW-1207	MAXM-1172	W. 117	Actionney Res
TOUCH PANEL CONTROLLER INTEGRATED WITH HOST PROCESSOR FOR DYNAMIC BASELINE IMAGE UPDATE	DIFFERENTIAL PIVEL TEST FOR CAPACITIVE TOUCH SCREENS	CHIP-ON-GLASS FOR TOUCH APPLICATIONS	TOUCH PANEL SENSOR FOR MITIGATING EFFICIS OF A FLOATING CONDITION	TOUCH PANEL SENSOR SYSTEM HAVING MULTI- FREQUENCY DRIVE SIGNALS	DUAL-WODE CAPACITANCE SENSING IN A TO JCH PANEL SENSOR	TOUCH PANEL EXCITATION USING A DRIVER SIGNAL HAVING TIME- VARYING CHARACTERISTICS	TOUGH PANEL FOR MITIGATING AND 'ON EXAGGERATING FLOATING CONDITION EFFECTS	THE
Pending	Pending	Published	Published	Pending	Published	Allowed	Published	snteag
13/749,829	14/032/346	13/786,564	13/650/059	13/719,656	13/634,702	13/571,765	13/270,121	Application
1/25/2013	9/20/2013	3/6/2013	10/11/2012	12/19/2012	11/26/2012	8/10/2012	2/9/2013	Filing Date 1
		701	201		23	203	B	Issue Date
		20140253459	28140104221		20140145997	20136194225	0130307924	
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MAXM-1453	MAXW-1442	MAXM-1441	MAXA-1405	MAXM-1367	W4XW1354	MAXM-1343	SEET.MXXIV	
CAPACITIVE TOUCH PANEL WITH INCREASED SCAN FREQUENCY	UNIQUE IDENTIFICIATION USING FLOATING OBJECT	HYBRID PEN DEVICE AND METHOD	Touch sensor design for better hover detections/missual capacitive fedinalized	ONE METHOD TO DRIVE TOUCH PANEL TO MEASURE HOVER	One Method to Save Power Consumption in appartise Touch Secretary System	CAPACITIVE TOUCH PANEL CONFIGURED TO SENSE BOTH ACTIVE AND PASSIVE INPUT WITH A SINGLE SENSOR	TOUCH PANIEL SENSOR HAVING DUAL MODE CAPACITYE SENSING FOR DETECTING AN OBJECT	Trie
Pending	Pending	Pending	Pending	Published	Perding	Published	Published	Status
14/580,543	14/797753	14/497,684	01,932875	14/108,672	14/264.317	13/899,700	785.281/h";	Application
12/23/2014	6/6/2014	9/26/2014	9/17/21/9	12/17/2013	4/29/2014	5/22/2013	2/18/2014	Filing Date
								Issue Date
				US20140375598		US20140347311	20140240280	Publication
								rasert
US	U s	SS	ų	8	83	8	US	Country

FINAL YERSION

PATENT REEL: 036526 FRAME: 0473 REEL: 042320 FRAME: 0087

MAXM-1832P	Marke-1831P	MAXM-1830P	Ma <i>cai</i> -1470p	MAXM-1463	259 T-MXXW	10 10 10 10
832P	31P	8309	405b	£63 £	88	
SYSTEM AND METHOD FOR DETECTING PRESSURE APPLIED TO CAPACITIVE TOUTH PANCIS	METHOD FOR IDENTIFYING A HOVER EFFECT OF CAPACITIVE TO JICH SCREENS USING A MIGHION SENSOR	DISCRETE FINGERPRINT SENSOR	CAPACTIVE TO JCH PANEL HAVING DIELECTRIC STRUCTURES FORMED THEREIN	TOUCH PANEL DIELECTRIC COVER WITH THROUGH- GLASS VIAS AND METHOD	HIGH-RESOLUTION ELECTRIC FIELD SENSORIN COVER GLASS	3177
Pending	Pending	Pending	Pending	Pending	Pending	Status
62/115,261	62/115.956	62/109,713	62/014.761	14/580,486	14/496,073	Application Number
2/12/2015	2/17/7015	1/30/2015	6/20/2014	12/23/2014	9/25/2014	Filing Date
						Issue Date
				·		Publication
						11.916.6
83	Ę	æ	B	US	S	Country

FINAL YERSION

REEL: 036526 FRAME: 0474 REEL: 042320 FRAME: 0088

MAXM- GB91CN	MAXM- USSUTW	MAXM- G890DE	WIJXIM- D890CD	MAXIM-0890CI
CHARGE TRANSFER SCHEME TO CONVERT CAPACITANCE TO VOLTAGE FOR TOUCH SCREEN CONTROLLERS	WETHOD AND APPARATUS FOR IMPROVING DINVANIIC BANGE OF A TOUICHSCREEN CONTROLLER	METHOD AND APPARATUS FOR IMPROVING DYNAMIC RANGE OF A TOUCHSCREEN CONTROLLER	METHOD AND APPARATUS FOR IMPROVING DIVIAMIC RANGE OF A TOUCHSCREEN CONTROLLER	METHOD AND APPARATUS FOR IMPROVING DYNAMIC RANGE OF A TOUCHSCREEN CONTROLLER
Published	Published	Published	Putalished	Status
201110108187.3	1.002/3994	102011017232.7	2011101081982	Application Number 14/070,955
4/21/2011	3/23/2611	4/15/2011	4/21/2011	Filing Date 11/4/2013
				9/9/2014
CN102262489	TW201209688	DE102011017232	CN 192235489	Publication
				Patent Count 8,830,207 United States
China	Taiwan, Province of China	Germany	China	Country United States

BATENT REEL: 036526 FRAME: 0475 REEL: 042320 FRAME: 0089

MAXM- 0892CN	MAXM-0852C1	MAXM-	C 93 177 7	
NOISE CANCELLATION TECHNIQUE FOR CAPACITIVE TOUCH SCREEN CONTROLLER USING DIFFERENTIAL SENSING	NUISE CANCELLATION TECHNIQUE FOR CAPACITIVE TOUCHSCREEN CONTROLLER USING DIFFERENTIAL SENSING	CHARGE TRANSFER SCHEME TO CONVERT: CAPACITANCE TO VOLTAGE FOR TOUCH SCREEN CONTROLLERS	CHARGE TRANSFER SCHEME TO CONVERT CAPACITANCE TO VOLIAGE FOR TOUCH SCREEN CONTROLLERS	1200
Published	Pending	Published	Published	Status
2011101081996	13/934,496	100109906	Number 107011/0174698	Application
4/21/2011	7/3/2013	3/23/2011		Filing Date
CN102762490		201205401	Date Number DE102011017498	2000 - 100 C300
China	United States	Taiwan, Province of China		Talent Court

PATENT REEL: 036526 FRAME: 0476 REEL: 042320 FRAME: 0090

MAXM- 0944CN	WLE680	MAXM- 0893DE	MAXNA U893CN	MAXM- 0892TW	ASSOCIACIÓN (1889) EN CONTROL
CIRCUITS, DEVICES AND METHODS HAVING PIPELINED CAPACITANCE	USE OF RANDOM SAMPLING TECHNIQUES TO REDUCE FINGER COUPLED NOISE	USE OF RANDOM SAMPLING TECHNIQUES TO REDUCE FINGER- COUPLED NOISE	USE OF RANDOM SAMPLING TECHWIQUES TO REDUCE FINGER COUPLED MOISE	NOISE CANCELLATION TECHNIQUE FOR CAPACITIVE TOUCH SCREEN CONTROLLER USING DIFFERENTIAL SENSING	NOISE CANCELLATION TECHNIQUE FOR CANCELLATION CONTROLLER USING USING DIFFERENTIAL SERSING
Published	Published	Published	Published	Published	Status
201210048676.9	100110334	1020110172513	CN201110108101.7	100110112	SEELLOTISCO.
2/27/2012	3/23/2011	4/15/2011	4/21/2011	3/24/2011	Filing Date
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CN102721893A	77w201203066	DE102011017251	CV1072364884	201203065	Publication Numbe DE 102211017231
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China	Tawan Province of China	Germany	Chine	Talwan, Province of China	Cermany

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2	MAXM-0947.2	ĝ.	C _X	ដូ	P P	Đ€	2	1
MIXED SIGNAL IMTEGRATOR	MIXED-SIGNAL INTEGRATOR ARCHITECTURE	CONTINUOUS TIME CORRELATOR ARCHITECTURE	CONTINUOUS TIME CORRELATOR ARCHITECTURE	TOUCH SENSE ARCHITECTURE HAVING A CORRELATOR FOR DEMODULATING A MEASURED CAPACITANCE FROM AN EXCITATION SIGNAL	CAPACITIVE TOUCH SENSE ARCHITECTURE	CAPACITIVE TOUCH SENSE ARCHITECTURE	CAPACITIVE TOUCH SENSE ARCHITECTURE	Title SENSING
Published	Issued	Pupilshad	Published	Published	Expired	Published	Published	Status
2012/10/18/1940	13/404,722	14/172,158	201210131159.8	14/530,889	PCJ/US12/26397	112012001000	X 391070102	Mumber
2/27/2012	2/24/2012	2,4/2014	2/27/2012	1.1/3/2014	2/23/2012	8/20/2013	8/23/2013	Filing Date
	11/5/2013		:					lssue Date
CN102882505	20120274464	20240152328	CN10298674	7015/048851	2012048535	DE112012001000T5	CN103392162	Publication Number
	8,575,988							Paten
China	United States	United States	CP	States	ĝ	Germany	China	Su ling

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MAXM- C999DE	Manno 0959CN	MAXM- C950CN	WAXM* 0948CM	MAXM-0948C1	MAXM 0947227V	Action ney Res
TOUCH PANEL TESTING USING MUTUAL CAPACITOR MEASUREMENTS	TOUCH PANEL TESTING USING METUAL CAPACITOR MEASUREMENTS	CANCELLING TOUCH PANEL OFFSET OF A TOUCH PANEL SENSOR	WETHOD FOR BACKGROUND NOISE MEASUREMENT AND FREQUENCY SELECTION IN TOUCH PANEL SENSORSYSTEMS	BACKGROUND NOISE MEASUREMENT AND FREQUENCY SELECTION IN TOUCH PANEL SENSOR SYSTEMS	CALBRATION FOR MIXED- SIGNAL INTEGRATION ARCHITECTURE	ARCHITECTURE
Published	Published	Published	Published	Pending	Published	Status
102012009844.8	201220158731.X	201210052738.3	201210d82752.3	14/512,512	207.210103158.2	Application
5/16/2012	5/21/2012	2/24/2012	2/24/2012	10/13/2014	2/27/2012	Filing Date Issue Date
DE102012009844	CN102809707A		C(N102681724		CN102854396	Publication Par
Germany	Chine	China	China	United States	China	Patent

PATENT REEL: 036627ENTAME: 0479 REEL: 042320 FRAME: 0093

MAXM-1172KR	MAXW- 1172DE	MAXM- 1172CN	MAX/91- 1112/CW	ИДХМ- 1086CN	Atturney Net 1008CN
TOUCH PANEL EXCITATION USING A DRIVE SIGNAL HAVING TIME-VARYING CHARACTERISTICS	TCUCHPANEL EXCITATION USING A DRIVE SIGNAL HAVING TIME-VARYING CHARACTERISTICS	TOUCH PANEL EXCITATION USING A DRIVE SIGNAL HAVING TIME-VARYING CHARACTERISTICS	TOUCH PANEL FOR METICATING AND/OR EXAGGERATING FROATING CONDITION EFFECTS	CAPACITIVE TOUCH PAMEL HAVING PROTRUSIONS FORMEDD BETWEEN DRIVE AND/OR SENSOR ELECTRODES	Title NATER SAMBOL NATERERENCE REDUCTION SOR TOUCH PANEL SYSTEMS
Published	Paidished	Pending	Published	Published	Status Published
10-2014-7024237	1107013000790.8	201380007884.7	201310047163:9	201310050663.X	Application Number Z01210E902403
3/30/2013	7/30/2014	8/1/2014	2/6/2013	2/8/2013	Filing Date State Date 6/8/2012
10-2014-0126352	DE11201306079015		CW103246416	CN103245417	Publication Number CNI02866798
Republic of Korea	Germany	China	Cfilina	China	China

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MAXM- 1343CN	MAXM- 1335CN	MAXIV 12620X	MAXM- 1212CN	MAXM- 1207DE	MAXM- 1207CN	Maxau-1172PC	ALL CONTROL
CAPACITIVE TOUCH PANEL CONFIGURED TO SENSE BOTH ACTIVE AND PASSIVE INPUT WITH A SINGLE	TOUCH PANEL SENSOR HAVING DUAL-MODE CAPACITIVE SENSING FOR DETECTING AN OBJECT	CHIP ON GLASS FOR TOUCH APPLICATIONS	TOUCH PANEL SENSOR FOR MITIGATING EFFECTS OF A FLOATING CONDITION	DUAL-MODE CAPACITANCE SENSING IN A TOUCH PANEL SENSOR	DUAL-MODE CAPACITANCE SENSING IN A TOUCH PANEL SENSOR	TOUCHPANEL EXCITATION USING ADRIVE SIGNAL HAVING THYE-VARYING CHARACTERISTICS	Ittle
Published	Published	Published	Published	Published	Published	panema	Status
201410218224.6	201410142869.5	201410141373.0	201310756910.8	102012112473.9	201310611584.1	PC7/152013/24/3F	Application Number
5/21/2014	2/28/2014	3/6/2014	10/11/2013	11/27/2023	11/26/2013	ETDZILEIT	Filing Date
							Date.
CN104182105	CN104216581A	CN104035618	CN103777829	DE102013112473	CN103838446	9473TIETO/OM	Publication
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MAXM-0950P	MAXM-0948P	MAXALOSIAR	MAXW-0565P	Resident
METHOD AND APPARATUS FOR CANCELLING TOUCH PANEL OFFSET OF A TOUCHSCREEN SENSOR	METHOD AND APPARATUS FOR BACKGROUND NOISE NIEASUREMENT AND FREQUENCY SELECTION IN TOUCHSCREEN SYSTEMS	MUTUAL CAPACITANCE TOUCH-SCREEN CONTROLLERISC INTERFACE	SYSTEM AND METHOD FOR INTERFACING TOUCHSCREEN DISPLAY WITH APPLICATIONS PROCESSOR FOR REDUCED DATA TRANSFER	31111
ралиж	Expired	Expired	Expired	Status
61/495,149	61/495,240	67/446.944	61/122,269	Application
8/9/2011	6/9/2011	2/25/2011	12/12/2008	Date
				Cate Full
				miner Andreas
Umæa va	United St.	United St		Patent Count Vaniter
	D Expired 51/495,249 FOR 51.	METHOD AND APPARATUS FOR BACKGROUND NOISE Expired 61/495,240 6/9/2011 MEASUREMENT AND FREQUENCY SELECTION IN TOUCHSCREEN STSTEMS STSTEMS METHOD AND APPARATUS FOR CANCELLING TOUCH PANNEL OFFSET OF A TOUCHSCREEN Expired 51/495,149 5/9/2011 SENSOR EXPIRED 5/9/2011 5/9/2011	CAPACITANCE Expired 62/446/944 2/25/2011 CAPACITANCE TOUCH-SCREEN CONTROLLERJIC CONTROLLERJIC	SYSTEM AND Expired 51/122,269 12/12/2008

PATENT REEL: 036526 FRAME: 0483 REEL: 042320 FRAME: 0097

MAXM-1335P	MAXM-117292 MAXM-1289P	MAXM-1019P	MAXM-0959P2
TOUCH PANEL SENSOR HAVING DUAL-MODE CAPACITIVE SENSING FOR DETECTING AN OBJECT	MULTI- FREQUENCY TOUCH PANEL EXCITATION DIFFERENTIAL PACEL TEST FOR CAPACITIVE TOUCH SCREENS	HOVEK, PALM AND SPURIOUS REJECTION FOR MUTUAL CAPACITANCE TOUCH CONTROLLERS MULTI RESQUENCY TOUCH PANEL ENCITATION	PANEL TEST METHOD BASED ON MUTUAL CAPACITOR MEASUREMENT IS REDUCTION FOR MUTUAL & SELF CAPACITANCE PANEL
Expired	Expired Expired	Expired Expired	Expired Expired
61/770,611	61/594,326 61/704,426	61/495,161 61/593,836	61/495,139 61/495,339 61/495,354
2/28/2013	2/2/2012	2/12/2012	6/9/2011 6/9/2011 6/9/2011
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United States	United States United States	United States United States	United States United States United States

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Махм-1442Р	MaxM-1441P	MAXM-140501	MAXM-1405P	МАХМ-1367 <i>р</i>	WAX M. 13.54P	
DWQUE BENTHIDATION USING RUDATING OBJECT	HYBRID PEN DEVICE AND METHOD	TOUCH SENSOR DESIGN FOR BETTER HOMER DETECTION USING TRADITIONAL WITTURL CEPACITIVE TECHNOLOGY	TOUCH SENSOR DESIGN FOR BETTER HOVER DETECTION USING TRADITIONAL MUTUAL CAPACITIVE TECHNOLOGY	SYSTEM AND METHOD TO DRIVE TOUCH PANEL TO MEASURE HOVER .	CAPACATIVE TOUCH SENSING SYSTEM WITH REDUCED DOWER CONSUMPTION	Title
Expired	Expired	Expired	Expired	Expired	Diplest	State
61/352/952	61/977,127	61/887,885	61/881,372	61/837,051	6.4816.354	Application
3/14/2014	4/9/2014	10/7/2013	9/23/2013	6/19/2013	4/29/2013	8 H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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MAXM-0949P	Махм-0795P	MAXM-1442P	Maxw-1441P		Attorney Net MAXM-1335P
Fast Finger Coordinate Extraction Algorith with DSP Co- Processor in Mutual Capacitive Touch Sensing Systems	DIFFERENTIAL CAPACITIVE TOUCHPAD CIRCUIT AND METHOD	UNIQUE IDENTIFICIATION USING FLOATING OBJECT	HYBRID PEN DEVICE AND METHOD	Sensor Having Dual-Mode Capacitive Sensing For Detecting an Object	Touch Panel
Expired	Expired	Expired	Expired		Status
61/495,346	61/326,830	61/952,952	51/977,127		4.04/Kation 4.1710er 61/770,511
6/9/2013	4/22/2010	3/14/2014	4/9/2014		Filing Date 2/28/2013
					Date P
					Number
					Patent
United States	United States	United States	United States		Country United States

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MAXWATTAGE	MAXW-1008P	W. 2007.	MaxW-1008P	MAXIN 1003P	MAXM-0952P	WaxWi-0951P
Multi Touch Algorithm for FP31 Capacitive Touch Screen Controller	Equations Based Linearization Methods for Improved Touch Accuracy	Linearization Lookup Table generation using a Mutual Generation using and the second and the sec	Lut Linearzation Methods for Improved Touch Accuracy	Robot Error Correction for Improved Touch Accuracy Estimation	Smart Baseline Calibration Method in Mutual Capacitor Touch Sensing Systems	Method for implementing Minimal or Almost-Zero Overhead Communication Threads on Michael Capacitive Touch Screen Systems
Expired	Expired	Expiresi	Expired	Spired	Expired	Expired
61/495,206	61/495,302	61/495.293	61/495,285	61/495/276	61/495,319	67,495,729
6/9/2011	6/9/2011	6/9/2011	6/9/2011	5/9/2011	6/9/2011	6/9/2011
United States	United States	United States	United States	United States	United States	Uniked States

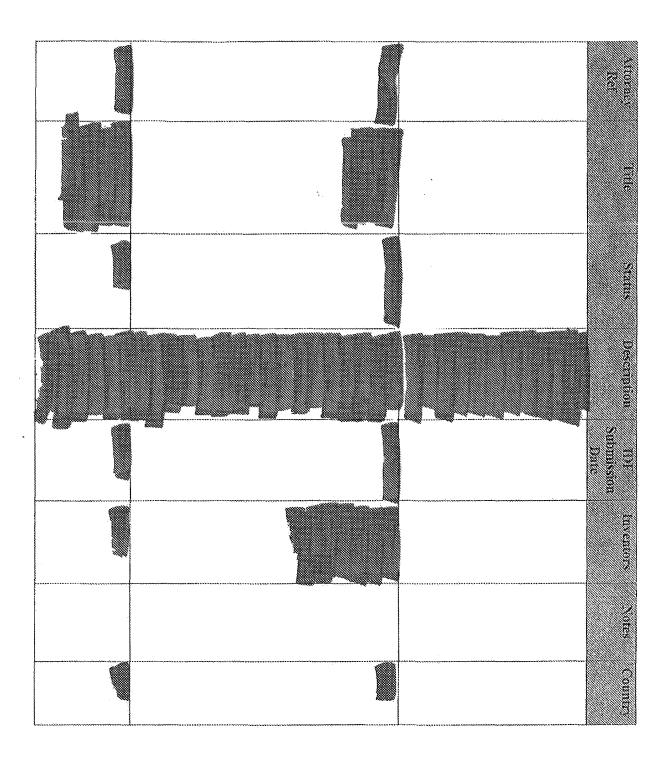
REEL: 036526 FRAME: 0487 REEL: 042320 FRAME: 0101

Invention Disclosure Form

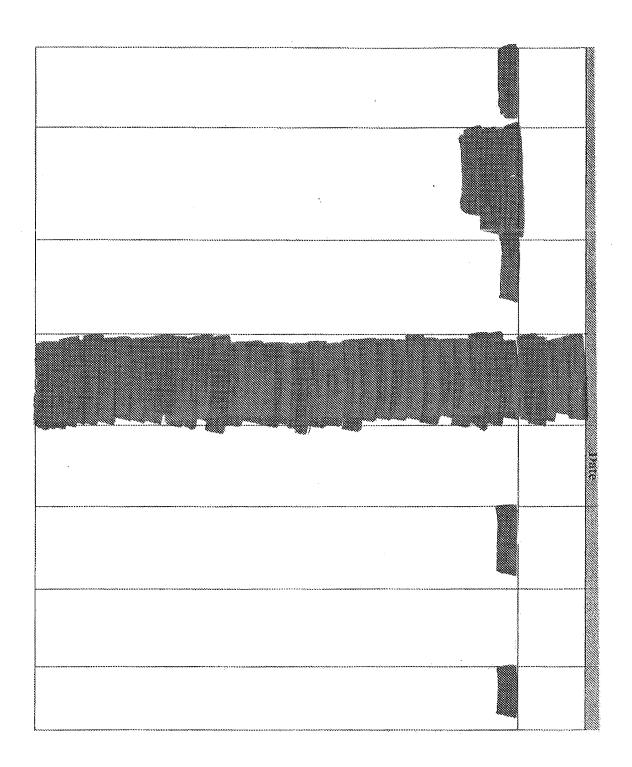
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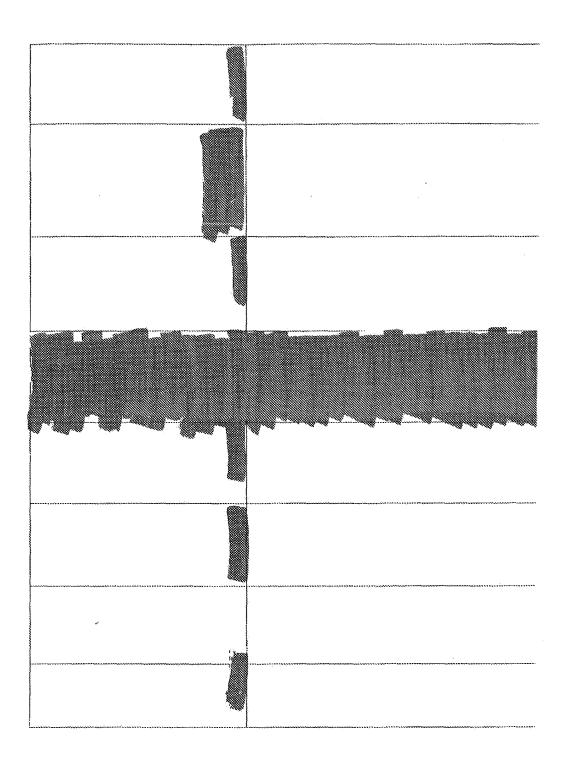
PATENT REEL: 036526 FRAME: 0488 REEL: 042320 FRAME: 0102



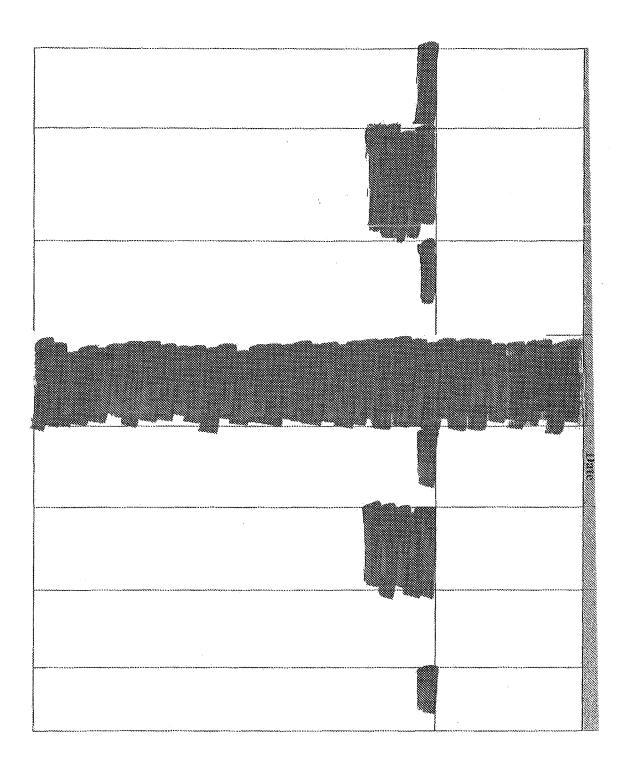
PATENT REEL: 036326FRAME: 0489 REEL: 042320 FRAME: 0103



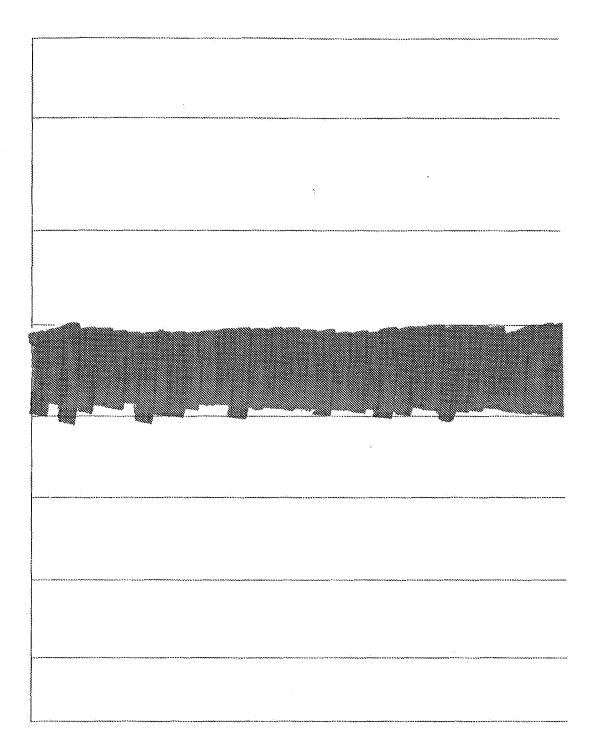
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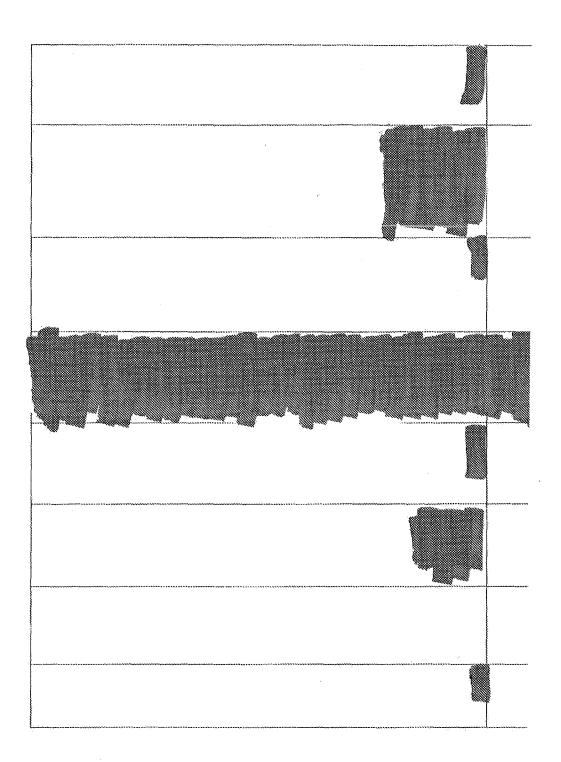
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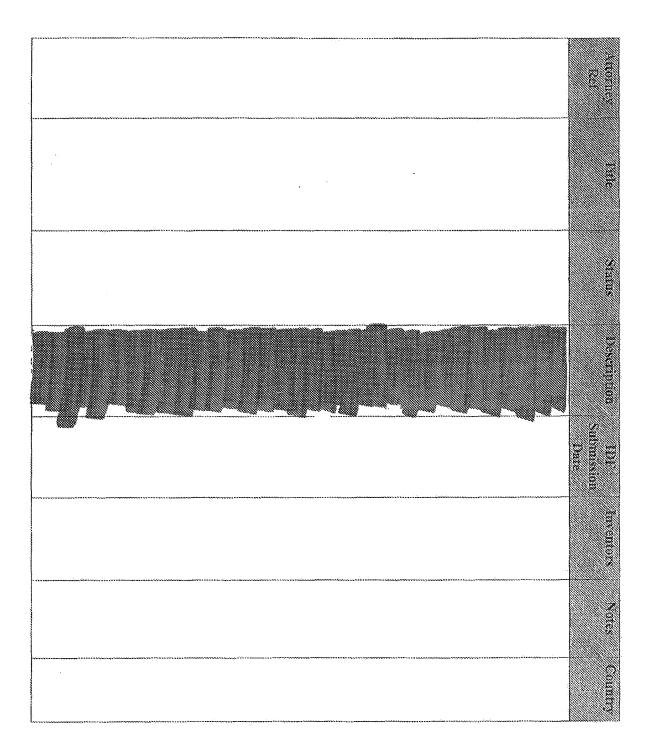
PATENT REEL: 03652ENTAME: 0492 REEL: 042320 FRAME: 0106



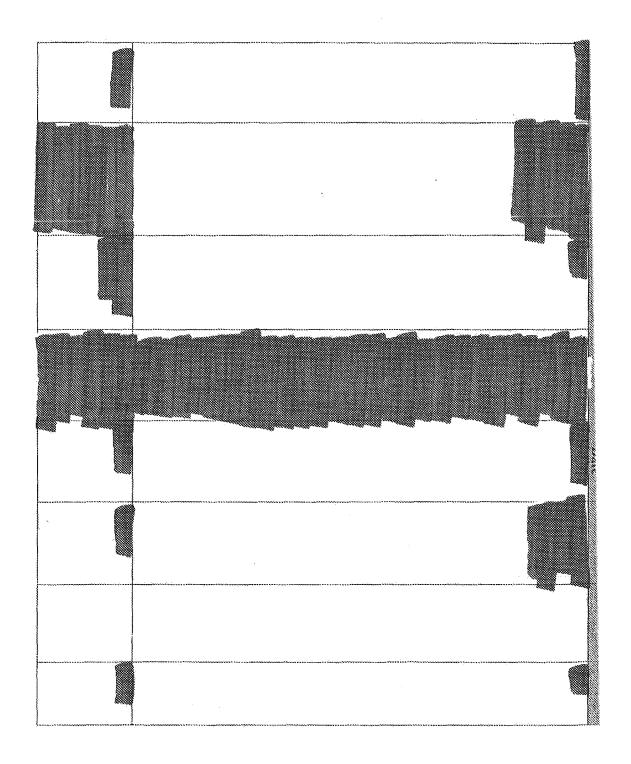
PATENT REEL: 03**66.76ENT**AME: 0493 REEL: 042320 FRAME: 0107



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PATENT REEL: 036626ENTAME: 0495 REEL: 042320 FRAME: 0109



PATENT REEL: 036476FNRAME: 0496 REEL: 042320 FRAME: 0110

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