504842093 03/28/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KEISUKE SAKAI	02/16/2018
TAKASHI AKIYAMA	02/16/2018

RECEIVING PARTY DATA

Name:	CITIZEN WATCH CO., LTD.	
Street Address:	ess: 1-12, TANASHICHO 6-CHOME	
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15764207

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ATTORNEY DOCKET NUMBER:	120235-025US1
NAME OF SUBMITTER:	JESSICA R. GROSS
SIGNATURE:	/Jessica R. Gross/

PATENT 504842093 REEL: 045378 FRAME: 0277

DATE SIGNED: 03/28/2018

Total Attachments: 1
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PATENT REEL: 045378 FRAME: 0278

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter "ASSIGNOR") by

Insert	1)CITIZEN WATCH CO., LTD.				
ASSIGNEE's Name(s) Address(es))	1-12, Tanashicho 6-chome, Nishitokyo-shi, Tokyo 188-8511, Japan				
	2)CITIZEN ELECTRONICS CO., LTD.				
	23-1, Kamikurechi 1-chome, Fujiyoshida-shi, Yamanashi 403-0001, Japan				
	(hereinafter "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled				
Title of					
nvention)	LED DRIVE CIRCUIT				
	relating to International Patent Application PCT/JP <u>2016</u> / <u>078526</u> and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:				
Insert date of execution application,	(a) executed on: Assignee's attorney is hereby authorized to insert in (h) the specified				
	(b) filed on data, when known.				

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

concurrent)

11 H. Anha	Keisuke Sakai	February 16, 2018
(SIGNATURE)	(TYPE NAME)	(DATE)
2 Z. Skizama	Takashi Akiyama	February 16, 2018
(SIGNATURE)	(TYPE NAME)	(DATE)
3)(SIGNATURE)	(TYPE NAME)	(DATE)
4)(SIGNATURE)	(TYPE NAME)	(DATE)
5)(SIGNATURE)	(TYPE NAME)	(DATE)
(Old/MTORB)	(TILE INTELL)	(OTTO)
(SIGNATURE)	(TYPE NAME)	(DATE)
7)(SIGNATURE)	(TYPE NAME)	(DATE)
8)(SIGNATURE)	(TVDE NAME)	(DATE)

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RECORDED: 03/28/2018