

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
EDUARDO LOPES COMINETTI	04/01/2021
MARCOS VINICIUS M. SILVA	04/01/2021
MARCOS A. SIMPLICIO JR.	04/01/2021
HARSH KUPWADE PATIL	03/31/2021
JEFFERSON E. RICARDINI F. DE OLIVEIRA	07/13/2021
RECEIVING PARTY DATA	
Name:	LG ELECTRONCS INC.
Street Address:	128, YEOUI-DAERO, YEONGDEUNGPO-GU
City:	SEOUL
State/Country:	KOREA, REPUBLIC OF
Postal Code:	07336
Name:	UNIVERSITY OF SAO PAULO
Street Address:	REITORIA STREET, 374 CAMPUS ARMANDO DE SALLES OLIVEIRA
City:	SAO PAULO
State/Country:	BRAZIL
Postal Code:	05508-220
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17219499
CORRESPONDENCE DATA	
Fax Number:	
<i>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.</i>	
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ATTORNEY DOCKET NUMBER:	R3590-00049 (P35258US01)

NAME OF SUBMITTER:	PHILIP WOO
SIGNATURE:	/Philip Woo/
DATE SIGNED:	09/10/2021
Total Attachments: 4 source=R3590-00049 Assignment_#page1.tif source=R3590-00049 Assignment_#page2.tif source=R3590-00049 Assignment_#page3.tif source=R3590-00049 Assignment_#page4.tif	

ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, **Eduardo Lopes Cominetti, Marcos Vinicius M. Silva, Marcos A. Simplicio Jr., Harsh Kupwade Patil, Jefferson E. Ricardini F. de Oliveira,** each individually assign to

- (1) LG Electronics Inc., a corporation formed under the laws of Korea and having a principal place of business at 128, Yeoui-daero, Yeongdeungpo-gu, Seoul 07336 Republic of Korea; and
- (2) UNIVERSITY OF SÃO PAULO located at Reitoria Street, 374 Campus Armando de Salles Oliveira, São Paulo 05508-220, Brazil,

and its successors, transferees, and assignees (collectively the “Assignee”), all of our individual and joint right, title, and interest throughout the world in the subject matter (the “Subject Matter”) of a patent application that names us as inventors, is titled “**VERIFICATION OF MESSAGES USING HASH CHAINING**”, and was filed in the United States Patent and Trademark Office on **March 31, 2021**, as application **17/219,499** (the “Application”). We authorize the insertion of the filing date and application number above.

This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors’ certificates for, any of the Subject Matter (collectively the “Applications and Granted Rights”) in every country or region, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee’s name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee’s name.

We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

We will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and

R3590-00049 (P35258US01)

declarations, statements, testimony, assignments, powers of attorney, applications, and documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.

Eduardo Lopes Cominetti
Eduardo Lopes Cominetti

Date: 01-Apr-2021

Marcos Vinicius Marcel da Silva
Marcos Vinicius M. Silva

Date: 01-Apr-2021

Marcos A. Simplicio Jr.
Marcos A. Simplicio Jr.

Date: 01-Apr-2021

Harsh Kupwade
Harsh Kupwade Patil

Date: 3-31-2021

Jefferson E. Ricardini
Jefferson E. Ricardini

Date: _____

declarations, statements, testimony, assignments, powers of attorney, applications, and documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.

Eduardo Lopes Cominetti

Date: _____

Marcos Vinicius M. Silva

Date: _____

Marcos A. Simplicio Jr.

Date: _____

Harsh Kupwade Patil

Date: _____

Jefferson E. Ricardini F. Oliveira

Jefferson E. Ricardini F. de Oliveira

Date: 13/07/2021

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: LG ELECTRONICS INC.

Signature: _____ Date: _____

Name: _____

Title: _____

Assignee: UNIVERSITY OF SÃO PAULO

Signature: _____ Date: _____

Name: _____

Title: _____

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