## 506052877 05/11/2020

EPAS ID: PAT6099591

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
ARMAN HAJATI	04/13/2020
ROBERT S. UPTON	05/04/2020
YUVAL GERSON	03/20/2020

#### **RECEIVING PARTY DATA**

Name:	APPLE INC.
Street Address:	ONE APPLE PARK WAY
City:	CUPERTINO
State/Country:	CALIFORNIA
Postal Code:	95014

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16871068

#### **CORRESPONDENCE DATA**

**Fax Number:** (003)562-2297

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.

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

Phone: 97235622291
Email: info@dkpat.co.il

Correspondent Name: KLIGLER & ASSOCIATES PATENT ATTORNEYS LT

Address Line 1: P.O. BOX 57651

Address Line 4: TEL AVIV, ISRAEL 61576

ATTORNEY DOCKET NUMBER:	P41441US1/1020-2005.1
NAME OF SUBMITTER:	SVETLANA RUDNIK
SIGNATURE:	/Svetlana Rudnik/
DATE SIGNED:	05/11/2020

### **Total Attachments: 6**

source=1020-2005-1-ExAssignment#page1.tif source=1020-2005-1-ExAssignment#page2.tif source=1020-2005-1-ExAssignment#page3.tif source=1020-2005-1-ExAssignment#page4.tif

PATENT 506052877 REEL: 052620 FRAME: 0775

source=1020-2005-1-ExAssignment#page5.tif source=1020-2005-1-ExAssignment#page6.tif

PATENT REEL: 052620 FRAME: 0776

#### ASSIGNMENT

THIS PATENT ASSIGNMENT is made from the inversors paging below thereins the inversors below the inversors to applie of business at One Applie Park Way, Coperting, CA95014, USA (hereinstler, Assignee)

WHEREAS the Assignors have made an invention that is described in the attached patent application entitled DIRECT OPTICAL COUPLING OF SCANNING LIGHT ENGINES TO A WAVEGUIDE (horomatter, the Invention).

NOV. THEREFORE, in consideration of the sum of one deliar (\$100) and other good and valuable consideration paid to the Assignors, the receipt and sufficiency of which are boreby acknowledged, the Assignors agree to assign, and hereby do assign, to the Assignor the entire right, this and interest in and to the Invention, including, without initiation, the above-mentioned patent application, and actor provisional and occupations deriving from the above-mentioned patent application, and including any original and or restaued Letters Patent of the United States granted for the Invention and any divisions, relatives continuations, continuations in port and extensions of any such patent application(s), and including any patents or other forms of protection of industrial property in relatives to the Inventions in any other exempty, and including the rights to fire and protection all applications for patents and other forms of protection of industrial property in the United States and other countries and the claims of protection of industrial property in the United States and other countries and in later protectly from the above-mentioned patent application in the United States and other countries and in above others countries and in above others country, and including the subject matter of any and all claims which may be obtained in such patents and the right to enforce such pages.

The Assignors benefity authorize and request the Commissioner of Pagens to issue any and all Letters Patents of the United States resulting from the above openioned potent application and any divisions, reissues, continuations, continuations-in-pays thereof to the Assignee, as Assignee of the entire interest, and likewise authorize officials of other countries to issue patents and other forms of industrial property protection to the Assignee.

The Assignment hereby coverage that they have full right to convey the entire interest become assigned, and that they have not executed and will not execute any acceptant in conflict berewith.

Each of the Assignors agrees to execute all papers in connection with the abovementioned patent application and any applications filed as divisions, ressues, continuations, or continuations-in-part thereof or otherwise deriving from the abovementioned patent application, including separate assignments in connection with such applications, that the Assignor may deem describle for the purposes of obtaining protecting and enforcing its rights in the Invention.

Each of the Assignors agrees to communicate to the Assignee or representatives thereof any facts known to him or her respecting the Investion and improvements thereof, and will upon request, but without expense to him or her, testify in any legal proceedings.

;

Decision Paradict Street, 2005

regarding the invention and provide any other assistance deemed necessary by the Assigned to obtain, protect and enforce its rights to the Invention

This Assignment shall be binding upon the hero, executors, administrators, and assigns of each of the Assignors, and shall more to the benefit of the heirs, executors, and shall more to the benefit of the heirs, executors, and assigns of the Assignore.

IN WITNESS WHEREOF, the Assignors have executed this Assignment on the date or dates indicated below.

First inventor: Amon Higher, Chicen of USA	
to come vignature 1977/1971	Date: [14]/3/2/24
Residence San Marco, CA, USA	
Second inventor, Robert S. Upton, citizen of USA	
breater agnerice	Dase
Residence Mountain View, CA, USA	
Third inventor: Yousi Gerson, citizen of heari	
Inventor signature:	Date
Residence Sannyvale CA USA	

\*

Docket: P41441US1/1020-2005.1

#### **ASSIGNMENT**

THIS PATENT ASSIGNMENT is made from the inventors named below (hereinafter, Assignors) to APPLE INC., a California corporation, having a place of business at One Apple Park Way, Cupertino, CA95014, USA (hereinafter, Assignee).

WHEREAS the Assignors have made an invention that is described in the attached patent application entitled DIRECT OPTICAL COUPLING OF SCANNING LIGHT ENGINES TO A WAVEGUIDE (hereinafter, the Invention),

NOW, THEREFORE, in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to the Assignors, the receipt and sufficiency of which are hereby acknowledged, the Assignors agree to assign, and hereby do assign, to the Assignee the entire right, title and interest in and to the Invention, including, without limitation, the above-mentioned patent application and all other provisional and non-provisional applications deriving from the above-mentioned patent application, and including any original and/or reissued Letters Patent of the United States granted for the Invention and any divisions, reissues, continuations, continuations-in-part and extensions of any such patent application(s), and including any patents or other forms of protection of industrial property that may be granted in relation to the Invention in any other country, and including the rights to file and prosecute all applications for patents and other forms of protection of industrial property in the United States and other countries and to claim priority from the above-mentioned patent application in the United States and in any other country, and including the subject matter of any and all claims which may be obtained in such patents and the right to enforce such patents.

The Assignors hereby authorize and request the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from the above-mentioned patent application and any divisions, reissues, continuations, continuations-in-part thereof to the Assignee, as Assignee of the entire interest, and likewise authorize officials of other countries to issue patents and other forms of industrial property protection to the Assignee.

The Assignors hereby covenant that they have full right to convey the entire interest herein assigned, and that they have not executed and will not execute any agreement in conflict herewith.

Each of the Assignors agrees to execute all papers in connection with the abovementioned patent application and any applications filed as divisions, reissues, continuations, or continuations-in-part thereof or otherwise deriving from the abovementioned patent application, including separate assignments in connection with such applications, that the Assignee may deem desirable for the purposes of obtaining, protecting and enforcing its rights in the Invention.

Each of the Assignors agrees to communicate to the Assignee or representatives thereof any facts known to him or her respecting the Invention and improvements thereof, and will, upon request, but without expense to him or her, testify in any legal proceedings

> PATENT REEL: 052620 FRAME: 0779

regarding the invention and provide any other assistance deemed necessary by the Assignee to obtain, protect and enforce its rights in the Invention.

This Assignment shall be binding upon the heirs, executors, administrators, and assigns of each of the Assignors, and shall inure to the benefit of the heirs, executors, administrators, successors and assigns of the Assignee.

IN WITNESS WHEREOF, the Assignors have executed this Assignment on the date or dates indicated below:

First inventor: Arman Hajati, citizen of USA		
Inventor signature:	Date: _	
Residence: San Mateo, CA, USA		
Second inventor: Robert S. Upton, citizen of USA		
Inventor signature: / /	Date: _	04-May-2020
Residence: Mountain View, CA, USA		
Third inventor: Yuval Gerson, citizen of Israel		
Inventor signature:	Date: _	
Residence: Sunnyvale, CA, USA		

#### ASSIGNMENT

THIS PATENT ASSIGNMENT is made from the inventors named below (hereinafter, Assignors) to APPLE INC., a California corporation, having a place of business at One Apple Park Way, Cupertino, CA95014, USA (hereinafter, Assignee).

WHEREAS the Assignors have made an invention that is described in the attached patent application entitled DIRECT OPTICAL COUPLING OF SCANNING LIGHT ENGINES TO A WAVEGUIDE (hereinafter, the Invention),

NOW, THEREFORE, in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to the Assignors, the receipt and sufficiency of which are hereby acknowledged, the Assignors agree to assign, and hereby do assign, to the Assignee the entire right, title and interest in and to the Invention, including, without limitation, the above-mentioned patent application and all other provisional and non-provisional applications deriving from the above-mentioned patent application, and including any original and/or reissued Letters Patent of the United States granted for the Invention and any divisions, reissues, continuations, continuations-in-part and extensions of any such patent application(s), and including any patents or other forms of protection of industrial property that may be granted in relation to the Invention in any other country, and including the rights to file and prosecute all applications for patents and other forms of protection of industrial property in the United States and other countries and to claim priority from the above-mentioned patent application in the United States and in any other country, and including the subject matter of any and all claims which may be obtained in such patents and the right to enforce such patents.

The Assignors hereby authorize and request the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from the above-mentioned patent application and any divisions, reissues, continuations, continuations-in-part thereof to the Assignee, as Assignee of the entire interest, and likewise authorize officials of other countries to issue patents and other forms of industrial property protection to the Assignee.

The Assignors hereby covenant that they have full right to convey the entire interest herein assigned, and that they have not executed and will not execute any agreement in conflict herewith.

Each of the Assignors agrees to execute all papers in connection with the abovementioned patent application and any applications filed as divisions, reissues, continuations, or continuations-in-part thereof or otherwise deriving from the abovementioned patent application, including separate assignments in connection with such applications, that the Assignee may deem desirable for the purposes of obtaining, protecting and enforcing its rights in the Invention.

Each of the Assignors agrees to communicate to the Assignee or representatives thereof any facts known to him or her respecting the Invention and improvements thereof, and will, upon request, but without expense to him or her, testify in any legal proceedings

hul berson

Docket: P41441US1/1020-2005.1

regarding the invention and provide any other assistance deemed necessary by the Assignee to obtain, protect and enforce its rights in the Invention.

This Assignment shall be binding upon the heirs, executors, administrators, and assigns of each of the Assignors, and shall inure to the benefit of the heirs, executors, administrators, successors and assigns of the Assignee.

IN WITNESS WHEREOF, the Assignors have executed this Assignment on the date or dates indicated below:

First inventor: Arman Hajat	ti, citizen of USA		
Inventor signature:		Date:	
Residence: San Mateo, CA,	USA		
Second inventor: Robert S.	Upton, citizen of U	SA	
Inventor signature:		Date:	
Residence: Mountain View	, CA, USA		
Third inventor: Yuval Gers Inventor signature:		Date: 3/(2	12078
Residence: Sunnyvale, CA,			/ <del>* * * *</del>