

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6388699

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JORDAN HOSIER	11/02/2019
YU ZHOU	10/30/2020
VIJAY K. GURBANI	10/16/2020
NIKHITA SHARMA	10/21/2020
NEIL MILSTED	11/01/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	VAIL SYSTEMS, INC.
<b>Street Address:</b>	570 LAKE COOK ROAD
<b>Internal Address:</b>	SUITE 400
<b>City:</b>	DEERFIELD
<b>State/Country:</b>	ILLINOIS
<b>Postal Code:</b>	60015
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	17091178
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(914)288-0023
<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>	
<b>Phone:</b>	914-288-0022
<b>Email:</b>	uspto@leasonellis.com
<b>Correspondent Name:</b>	LEASON ELLIS LLP
<b>Address Line 1:</b>	ONE BARKER AVENUE
<b>Address Line 2:</b>	FIFTH FLOOR
<b>Address Line 4:</b>	WHITE PLAINS, NEW YORK 10601-1526
<b>ATTORNEY DOCKET NUMBER:</b>	11404/008290-US1
<b>NAME OF SUBMITTER:</b>	SAFET METJAHIC
<b>SIGNATURE:</b>	/Safet Metjahic/
<b>DATE SIGNED:</b>	11/06/2020

**Total Attachments: 8**

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## ASSIGNMENT AGREEMENT

**THIS ASSIGNMENT** (hereinafter referred to as “**Assignment**”) is made by Jordan Hosier, having a residence in Chicago, IL, Yu Zhou, having a residence in Naperville, IL, Vijay K. Gurbani, having a residence in Lisle, IL, Nikhita Sharma, having a residence in Chicago, IL, and Neil Milsted, having a residence in Chicago, IL (hereinafter referred to as “**Assignors**”).

**WHEREAS**, Assignors have invented certain new and useful processes, machines, articles of manufacture, compositions of matter, and/or improvements thereof disclosed in U.S. Provisional Application No. 63/083,650, filed September 25, 2020 entitled “Lightweight domain adaptation: A filtering pipeline to improve accuracy of an Automatic Speech Recognition (ASR) engine,” Attorney Docket No. 11404/008985-US0 (hereinafter referred to as “**Application**”); and

**WHEREAS**, Vail Systems, Inc., a corporation having a place of business at 570 Lake Cook Road, Suite 400, Deerfield, IL, 60015, USA (hereinafter referred to as “**Assignee**”), is desirous of acquiring the entire right, title and interest worldwide in and to the Application, and inventions and improvements described and claimed therein, and in and to any patents to be obtained therefor, thereon, and therefrom.

**NOW, THEREFORE**, for sufficient, good and valuable consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over unto Assignee, its successors, legal representatives and assigns, all right, title and interest throughout the world in and to the Application, any inventions and improvements claimed or disclosed therein, and any and all letters patent, certificates of invention, design registrations and utility models which may be granted therefor throughout the world, including the United States, its territorial possessions and all other countries or jurisdictions in the world, and in and to any and all design, utility (including non-provisional), utility model, reissue, reexamination, divisional, continuation, continuation-in-part, substitute, and extension thereof, and all other applications relating thereto which shall be filed by the Assignee or its assignees in the United States, its territorial possessions and all foreign countries, for Assignee’s own use and enjoyment and the use and enjoyment of its successors, legal representatives and assigns, as fully and entirely as the same would have been held and enjoyed by Assignors if this Assignment had not been made, together with (A) the right, if any, to register or apply in all countries and regions in the Assignee’s name for patents, utility models, design registrations and like rights of exclusion and for inventors’ certificates for said inventions and improvements; (B) the right to prosecute, maintain and defend the Application (and any patents granted thereon or therefrom) before any public or private agency, office or registrar including by filing utility (including non-provisional), design, reissue, reexamination, divisional, continuation, continuation-in-part, substitute, extension and all other applications relating to the Application; (C) the right, if any, to claim priority based on the filing date of the Application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, the Paris Convention, and all other treaties of like purposes; and (D) the right to sue and recover damages or other compensation for past, present or future infringements thereof, the right to sue and obtain equitable relief,

including injunctive relief, in respect of such infringements, and the right to fully and entirely stand in the place of the Assignors in all matters related thereto.

**AND**, at Assignee's cost, Assignors shall use reasonable efforts to take actions and execute and deliver documents that Assignee may reasonably request to effect the terms of this Assignment and to perfect Assignee's title in and to the Application assigned to it hereunder, including, without limitation, entering into individual patent assignment agreements (in one or more languages) for the purposes of evidencing and recording Assignee's rights in the Application.

**AND**, Assignee shall be solely responsible for all actions and all costs whatsoever, including but not limited to taxes, attorneys' fees and patent office fees in any jurisdiction, associated with the perfection of Assignee's right, title, and interest in and to the Application and recordation and/or registration of this Assignment or any other document evidencing the assignment to Assignee of the Application. The Assignors hereby authorize the Commissioner/Director of Patents and Trademarks in the United States Patent and Trademark Office, and the corresponding entities or agencies in any applicable foreign countries or multinational authorities, to record Assignee as the assignee and owner of the Application and to deliver to Assignee all official documents and communications as may be warranted by this Assignment.

**AND**, for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns that, at the time of execution and delivery of these presents, except for any right, title and/or interest that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the lawful owners of all right, title and interest in and to the Application, including the inventions and improvements described therein, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

**AND**, Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

**LEASON ELLIS LLP**

including all practitioners at Customer Number 76808.

**AND**, this Assignment can be executed in any number of counterparts, each of which when so executed shall be deemed an original and all of which taken together shall constitute one and the same agreement. This Assignment shall have an effective date corresponding to the last date of execution.

*[SIGNATURE PAGES FOLLOW]*

**IN WITNESS WHEREOF**, Assignors and Assignee have caused this Assignment to be executed.

### ASSIGNORS

I declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that I have signed this document as my own free act and that all of the foregoing is true and correct.

By: Jordan Hosier  
**Jordan Hosier**, Inventor

Witnessed by: Patrick Schulte

Witness Name: Patrick Schulte

Date: November 2, 2019

By: \_\_\_\_\_  
**Yu Zhou**, Inventor

Witnessed by: \_\_\_\_\_

Witness Name: \_\_\_\_\_

Date: \_\_\_\_\_, 2019

By: \_\_\_\_\_  
**Vijay K. Gurbani**, Inventor

Witnessed by: \_\_\_\_\_

Witness Name: \_\_\_\_\_

Date: \_\_\_\_\_, 2019

By: \_\_\_\_\_  
**Nikhita Sharma**, Inventor

Witnessed by: \_\_\_\_\_

Witness Name: \_\_\_\_\_

Date: \_\_\_\_\_, 2019

By: \_\_\_\_\_  
**Neil Milsted**, Inventor

Witnessed by: \_\_\_\_\_

Witness Name: \_\_\_\_\_

Date: \_\_\_\_\_, 2019

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By: \_\_\_\_\_  
Jordan Hosier, Inventor

Witnessed by: \_\_\_\_\_

Date: \_\_\_\_\_, 2019

Witness Name: \_\_\_\_\_

By: *Jie Zhou*  
Yu Zhou, Inventor

Witnessed by: *Jie Zhou*

Date: 10/30/2020 ~~2019~~

Witness Name: Jie Zhou

By: \_\_\_\_\_  
Vijay K. Gurbani, Inventor

Witnessed by: \_\_\_\_\_

Date: \_\_\_\_\_, 2019

Witness Name: \_\_\_\_\_

By: \_\_\_\_\_  
Nikhita Sharma, Inventor

Witnessed by: \_\_\_\_\_

Date: \_\_\_\_\_, 2019

Witness Name: \_\_\_\_\_

By: \_\_\_\_\_  
Neil Milsted, Inventor

Witnessed by: \_\_\_\_\_

Date: \_\_\_\_\_, 2019

Witness Name: \_\_\_\_\_

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By: \_\_\_\_\_  
Jordan Hosier, Inventor

Witnessed by: \_\_\_\_\_

Witness Name: \_\_\_\_\_

Date: \_\_\_\_\_, 2019

By: \_\_\_\_\_  
Yu Zhou, Inventor

Witnessed by: \_\_\_\_\_

Witness Name: \_\_\_\_\_

Date: \_\_\_\_\_, 2019

By: [Signature]  
Vijay K. Gurbani, Inventor

Witnessed by: Neetu Gurbani

Witness Name: NEETU GURBANI

Date: Oct 16, <sup>2020</sup>~~2019~~

By: \_\_\_\_\_  
Nikhita Sharma, Inventor

Witnessed by: \_\_\_\_\_

Witness Name: \_\_\_\_\_

Date: \_\_\_\_\_, 2019

By: \_\_\_\_\_  
Neil Milsted, Inventor

Witnessed by: \_\_\_\_\_

Witness Name: \_\_\_\_\_

Date: \_\_\_\_\_, 2019

IN WITNESS WHEREOF, Assignors and Assignee have caused this Assignment to be executed.

### ASSIGNORS

I declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that I have signed this document as my own free act and that all of the foregoing is true and correct.

By: \_\_\_\_\_  
**Jordan Hosier, Inventor**

Witnessed by: \_\_\_\_\_

Witness Name: \_\_\_\_\_

Date: \_\_\_\_\_, 2019

By: \_\_\_\_\_  
**Yu Zhou, Inventor**

Witnessed by: \_\_\_\_\_

Witness Name: \_\_\_\_\_

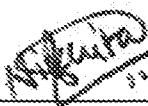
Date: \_\_\_\_\_, 2019

By: \_\_\_\_\_  
**Vijay K. Gurbani, Inventor**

Witnessed by: \_\_\_\_\_

Witness Name: \_\_\_\_\_

Date: \_\_\_\_\_, 2019

By:  \_\_\_\_\_  
**Nikhita Sharma, Inventor**

Witnessed by:  \_\_\_\_\_

Witness Name: **DIKSHANT SAINI**

Date: **10/21**, ~~2019~~ **2020**

By: \_\_\_\_\_  
**Neil Milsted, Inventor**

Witnessed by: \_\_\_\_\_

Witness Name: \_\_\_\_\_

Date: \_\_\_\_\_, 2019



**IN WITNESS WHEREOF**, Assignors and Assignee have caused this Assignment to be executed.

### ASSIGNORS

I declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that I have signed this document as my own free act and that all of the foregoing is true and correct.

By: \_\_\_\_\_  
**Jordan Hosier**, Inventor

Witnessed by: \_\_\_\_\_

Witness Name: \_\_\_\_\_

Date: \_\_\_\_\_, 2019

By: \_\_\_\_\_  
**Yu Zhou**, Inventor

Witnessed by: \_\_\_\_\_

Witness Name: \_\_\_\_\_

Date: \_\_\_\_\_, 2019

By: \_\_\_\_\_  
**Vijay K. Gurbani**, Inventor

Witnessed by: \_\_\_\_\_

Witness Name: \_\_\_\_\_


Date: \_\_\_\_\_, 2019

By: \_\_\_\_\_  
**Nikhita Sharma**, Inventor

Witnessed by: \_\_\_\_\_

Witness Name: \_\_\_\_\_

Date: \_\_\_\_\_, 2019

By:  \_\_\_\_\_  
**Neil Milsted**, Inventor

Witnessed by:  \_\_\_\_\_

Witness Name: Georgina M Milsted

Date: 1 November 2020, ~~2019~~

**ACCEPTANCE BY ASSIGNEE**

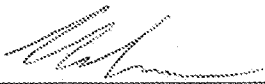
In connection with an assignment in any jurisdiction in which an acceptance by ASSIGNEE is required, I hereby accept this assignment on behalf of **Vail Systems, Inc.** I declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that (check all that apply):

☒ I am an officer of the above-identified ASSIGNEE,

☐ I have signed this document on behalf of ASSIGNEE with the full authority of the ASSIGNEE.

and that all the foregoing is true and correct.

Dated: November 4, 2020

By:   
Name: Howard Shaw

Title: CFO