

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6843591

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT	
NATURE OF CONVEYANCE:	Corrective Assignment to correct the MISFILED PATENT APPLICATION 14579432 TO 14579423 AND MISSING PATENT 10,681,574 previously recorded on Reel 054063 Frame 0234. Assignor(s) hereby confirms the SECURITY INTEREST.	
RESUBMIT DOCUMENT ID:	506691317	
CONVEYING PARTY DATA		
Name		Execution Date
INEOQUEST TECHNOLOGIES, LLC		10/15/2020
RECEIVING PARTY DATA		
Name:	FORTRESS CREDIT CORP., AS AGENT	
Street Address:	1345 AVENUE OF THE AMERICAS	
City:	NEW YORK	
State/Country:	NEW YORK	
Postal Code:	10105	
PROPERTY NUMBERS Total: 23		
Property Type	Number	
Patent Number:	10681574	
Application Number:	14579423	
Application Number:	14579432	
Application Number:	11257183	
Application Number:	11257184	
Application Number:	11396753	
Application Number:	11582072	
Application Number:	11654746	
Application Number:	12336210	
Application Number:	12608764	
Application Number:	12619120	
Application Number:	12788949	
Application Number:	13184163	
Application Number:	13404329	
Application Number:	13404401	
Application Number:	13404561	
Application Number:	13540084	

Property Type	Number
Application Number:	14242115
Application Number:	14579462
Application Number:	14886510
Application Number:	16185389
Application Number:	16185412
Application Number:	10604997

CORRESPONDENCE DATA

Fax Number: (212)751-4864

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: 2129061209

Email: JESSICA.BAJADA-SILVA@LW.COM

Correspondent Name: LATHAM & WATKINS LLP, C/O JESSICA BAJADA-SILVA

Address Line 1: 885 THIRD AVENUE

Address Line 4: NEW YORK, NEW YORK 10022

NAME OF SUBMITTER:	JESSICA BAJADA-SILVA
---------------------------	----------------------

SIGNATURE:	/s/ Jessica Bajada-Silva
-------------------	--------------------------

DATE SIGNED:	08/02/2021
---------------------	------------

Total Attachments: 9

source=Project Lightspeed - Patent IPSA (Executed Version)(118259610.1)#page1.tif
source=Project Lightspeed - Patent IPSA (Executed Version)(118259610.1)#page2.tif
source=Project Lightspeed - Patent IPSA (Executed Version)(118259610.1)#page3.tif
source=Project Lightspeed - Patent IPSA (Executed Version)(118259610.1)#page4.tif
source=Project Lightspeed - Patent IPSA (Executed Version)(118259610.1)#page5.tif
source=Project Lightspeed - Patent IPSA (Executed Version)(118259610.1)#page6.tif
source=Project Lightspeed - Patent IPSA (Executed Version)(118259610.1)#page7.tif
source=Project Lightspeed - Patent IPSA (Executed Version)(118259610.1)#page8.tif
source=Project Lightspeed - Patent IPSA (Executed Version)(118259610.1)#page9.tif

PATENT SECURITY AGREEMENT

This PATENT SECURITY AGREEMENT is entered into as of October 15, 2020 (this “**Agreement**”), among IneoQuest Technologies, LLC, a Delaware limited liability company, Project Giants, LLC, a Delaware limited liability company, Eco Digital, LLC, a Delaware limited liability company (each, a “**Grantor**”) and Fortress Credit Corp. in its capacities as administrative agent and collateral agent (in such capacities, the “**Administrative Agent**”) for the Secured Parties.

Reference is made to that certain Security Agreement, dated as of October 15, 2020 (as amended, supplemented or otherwise modified from time to time, the “**Security Agreement**”), among the Loan Parties party thereto and the Administrative Agent. The Lenders (as defined below) have extended credit to the Borrower subject to the terms and conditions set forth in that certain Credit Agreement, dated as of October 15, 2020 (as amended, supplemented or otherwise modified from time to time, the “**Credit Agreement**”), by and among Telestream Holdings Corporation, a Delaware corporation (the “**Borrower**”), Thunder Parent Inc., a Delaware limited partnership (“**Holdings**”), the Lenders from time to time party thereto, and Administrative Agent. Consistent with the requirements set forth in Section 4.01 of the Credit Agreement and Section 4.03(c) of the Security Agreement, the parties hereto agree as follows:

SECTION 1. **Terms.** Capitalized terms used in this Agreement and not otherwise defined herein have the meanings specified in the Security Agreement.

SECTION 1. **Grant of Security Interest.** As security for the prompt and complete payment or performance, as the case may be, in full of the Secured Obligations, each Grantor, pursuant to the Security Agreement, did and hereby does pledge, collaterally assign, mortgage, transfer and grant to the Administrative Agent, its successors and permitted assigns, on behalf of and for the benefit of the Secured Parties, a continuing security interest in all right, title or interest in, to or under all of the following assets, whether now owned or at any time hereafter acquired by or arising in favor of such Grantor and regardless of where located (collectively, the “**Patent Collateral**”):

- A. all Patents, including those issued Patents and pending applications in the United States Patent and Trademark Office listed on Schedule I hereto;
- B. all inventions described and claimed therein;
- C. all reissues, divisions, continuations, renewals, extensions and continuations in part thereof;
- D. the right to sue third parties for past, present and future infringements of any Patent and pending applications;
- E. all Proceeds of and any right associated with the foregoing; and
- F. all rights, priorities and privileges corresponding to any of the foregoing throughout the world;

in each case to the extent the foregoing items constitute Collateral.

SECTION 2. **Security Agreement.** The security interests granted to the Administrative Agent herein are granted in furtherance, and not in limitation, of the security interests pledged, collaterally assigned, mortgaged, transferred and granted to the Administrative Agent pursuant to the Security Agreement. Each Grantor hereby acknowledges and affirms that the rights and remedies of the Administrative Agent with respect to the Patent Collateral are more fully set forth in the Security

Agreement, the terms and provisions of which are hereby incorporated herein by reference as if fully set forth herein. In the event of any conflict between the terms of this Agreement and the Security Agreement, the terms of the Security Agreement shall govern.

SECTION 3. ***Governing Law.*** This Agreement shall be governed by, and construed and interpreted in accordance with, the laws of the State of New York.

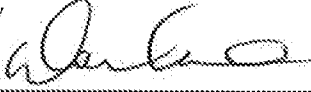
[Signature Pages Follow]

IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement as of the day and year first above written.

INEOQUEST TECHNOLOGIES, LLC,
a Delaware limited liability company

By: 
Name: Dan Castles
Title: President

PROJECT GIANTS, LLC, a Delaware limited liability
company

By: 
Name: Dan Castles
Title: President

ECO DIGITAL, LLC, a Delaware limited liability company

By: 
Name: Dan Castles
Title: President

FORTRESS CREDIT CORP.
as Administrative Agent

By: _____

Name: Constantine M. Dakolias
Title: President

SCHEDULE I

PATENTS

<u>REGISTERED OWNER</u>	<u>SERIAL NUMBER</u>	<u>DESCRIPTION</u>
<u>IneoQuest Technologies, LLC</u>	10/604,997 / 7,321,565	System and Method for Analyzing the Performance of Multiple Transportation Streams of Streaming Media in Packet-Based Networks
<u>IneoQuest Technologies, LLC</u>	11/257,184 / 7,801,127	System and Method for Creating a Sequence Number Field for Streaming Media in Packet-Based Networks Utilizing Internet Protocol
<u>IneoQuest Technologies, LLC</u>	12/619,120 / 8,019,896	System and Method of Collecting Video Content Information
<u>IneoQuest Technologies, LLC</u>	11/257,183 / 8,031,623	System and Method for Creating Multiple Transportation Streams of Streaming Media Network Test Traffic In Packet-Based Networks
<u>IneoQuest Technologies, LLC</u>	11/654,746 / 7,848,237	System and Method for Selective Packet Discard for the Transport of Multiple Transportation Streams of Streaming Media In Packet-Based Networks
<u>IneoQuest Technologies, LLC</u>	11/396,753 / 8,838,772	System and Method for Analyzing the Performance of Multiple Transportation Streams of Streaming Media In Packet-Based Networks
<u>IneoQuest Technologies, LLC</u>	11/582,072 / 8,625,455	System and Method for Handling Streaming Media
<u>IneoQuest Technologies, LLC</u>	12/336,210 / 8,588,069	System and Method for Analyzing the Performance of Multiple Transportation Streams of Streaming Media In Packet-Based Networks
<u>IneoQuest Technologies, LLC</u>	12/608,764 / 8,239,888	Advertising Metrics System and Method
<u>IneoQuest Technologies, LLC</u>	12/788,949 / 9,197,684	Streaming Media Delivery Composite
<u>IneoQuest Technologies, LLC</u>	13/184,163 / 9,590,816	System and Method for Creating Multiple Transportation Streams of Streaming Media Network Test Traffic in Packet-Based Networks
<u>IneoQuest Technologies, LLC</u>	13/404,329 / 9,449,086	System and Method for Analyzing and Collecting Internet-Based Video Service Quality Information

<u>REGISTERED OWNER</u>	<u>SERIAL NUMBER</u>	<u>DESCRIPTION</u>
<u>IneoQuest Technologies, LLC</u>	13/404,401 / 9,449,087	System and Method for Videoconferencing and TelePresence Quality Analytics
<u>IneoQuest Technologies, LLC</u>	13/404,561 / 9,449,088	System and Method for Collecting Handheld Test & Measurement Video Quality Information
<u>IneoQuest Technologies, LLC</u>	13/540,084 / 8,943,530	Advertising Metrics System and Method
<u>IneoQuest Technologies, LLC</u>	14/242,115 / 9,191,426	System and Method for Analyzing the Performance of Multiple Transportation Streams of Streaming Media in Packet-Based Networks
<u>IneoQuest Technologies, LLC</u>	14/579,423 / 9,232,241	Advertising Metrics System and Method
<u>IneoQuest Technologies, LLC</u>	14/579,462 / 9,253,512	Advertising Metrics System and Method
<u>IneoQuest Technologies, LLC</u>	14/886,510 / 9,680,890	Streaming Media Delivery Composite
<u>IneoQuest Technologies, LLC</u>	16/185366 / 10,681,574	Video Quality Monitoring
<u>IneoQuest Technologies, LLC</u>	16/185389 / 10,681,575	Video Quality Monitoring
<u>IneoQuest Technologies, LLC</u>	16/185412 / 10,674,387	Video Quality Monitoring
<u>Project Giants, LLC</u>	6,941,017	Temporal Processing for Realtime Human Vision System Behavior Modeling
<u>Project Giants, LLC</u>	6,751,360	Fast Video Temporal Alignment Estimation
<u>Project Giants, LLC</u>	6,670,963	Visual Attention Model
<u>Project Giants, LLC</u>	7,180,539	Luminance Qualified Vector Display
<u>Project Giants, LLC</u>	6,738,099	Robust Camera Motion Estimation for Video Sequences
<u>Project Giants, LLC</u>	7,061,920	Streaming Media Quality Analyzer System
<u>Project Giants, LLC</u>	6,907,143	Adaptive Spatio-Temporal Filter for Human Vision System Models
<u>Project Giants, LLC</u>	6,829,005	Predicting Subjective Quality Ratings of Video
<u>Project Giants, LLC</u>	7,268,783	Image Alias Rejection Using Shaped Statistical Filtering
<u>Project Giants, LLC</u>	6,975,774	Quantifying Perceptual Information and Entropy
<u>Project Giants, LLC</u>	7,102,667	Picture Quality Diagnostics for Revealing Cause of Perceptible Impairments
<u>Project Giants, LLC</u>	6,944,356	Locating Point of Interest in an Impaired Image
<u>Project Giants, LLC</u>	7,889,211	Measuring PSNR of Full Color Video

<u>REGISTERED OWNER</u>	<u>SERIAL NUMBER</u>	<u>DESCRIPTION</u>
<u>Project Giants, LLC</u>	7,773,112	Automatic Measurement of Video Parameters
<u>Project Giants, LLC</u>	7,327,384	Gamut False Color Display
<u>Project Giants, LLC</u>	7,071,965	Artistic Color Gamut Display
<u>Project Giants, LLC</u>	6,975,349	Two-Dimensional Video Timing Display
<u>Project Giants, LLC</u>	7,038,711	Audio Processing Using a Video Rasterizer
<u>Project Giants, LLC</u>	7,154,532	Video Field Rate Persistence
<u>Project Giants, LLC</u>	7,180,537	Relative Channel Delay Measurement
<u>Project Giants, LLC</u>	7,069,167	Frequency Response Measurement
<u>Project Giants, LLC</u>	7,586,515	Instrument for Real-Time Video Quality Measurement
<u>Project Giants, LLC</u>	8,713,083	Digital Fine Delay Processing
<u>Project Giants, LLC</u>	8,497,909	Video Timing Display for Multi-Rate Systems
<u>Project Giants, LLC</u>	7,764,305	Method and Apparatus for Generating Reference Television Signal
<u>Project Giants, LLC</u>	8,184,747	Flexible Timebase for Eye Diagram
<u>Project Giants, LLC</u>	8,355,469	Flexible Timebase for Eye Diagram
<u>Project Giants, LLC</u>	8,054,331	Systems and Methods for Generating Video Test Sequences Based Upon Captured Video Data
<u>Project Giants, LLC</u>	9,699,446	Test and Measurement Device, System, and Method for Providing Synchronized Measurement Views
<u>Project Giants, LLC</u>	9,031,134	System for Detecting Sequences of Frozen Frame in Baseband Digital Video
<u>Project Giants, LLC</u>	9,013,502	Method of Viewing Virtual Display Outputs
<u>Project Giants, LLC</u>	8,754,988	Blur Detection with Local Sharpness Map
<u>Project Giants, LLC</u>	9,071,825	Tiling or Blockiness Detection Based on Spectral Power Signature
<u>Project Giants, LLC</u>	9,723,303	System For Generating Text Defined Test Patterns
<u>Project Giants, LLC</u>	8,963,998	Full Reference System for Predicting Subjective Quality of Three-Dimensional Video
<u>Project Giants, LLC</u>	9,591,304	Evaluation of Perceptual Visual Quality
<u>Project Giants, LLC</u>	9,148,644	System For Detecting Structured Artifacts in Video Sequences
<u>Project Giants, LLC</u>	9,569,856	Variable Blocking Artifact Size and Offset Detection
<u>Project Giants, LLC</u>	9,236,209	Relay Failure Detection System
<u>Project Giants, LLC</u>	9,721,354	Stop Weighted Waveform
<u>Project Giants, LLC</u>	9,317,931	Stop Weighted Waveform
<u>Project Giants, LLC</u>	10,057,566	Multiple Focus-Peaking Picture Markers Allowing Depth-of-Field Indication for Adjusting Camera Focus
<u>Project Giants, LLC</u>	10,025,988	Anomalous Pixel Detection
<u>Project Giants, LLC</u>	D781,800	Front Panel of a Video Display
<u>Project Giants, LLC</u>	6,642,966	Subliminally Embedded Keys in Video for Synchronization
<u>Project Giants, LLC</u>	7,477,286	Rectangular Gamut Display

<u>REGISTERED OWNER</u>	<u>SERIAL NUMBER</u>	<u>DESCRIPTION</u>
<u>Project Giants, LLC</u>	8,436,939	AV Delay Measurement and Correction Via Signature Curves
<u>Project Giants, LLC</u>	7,642,822	Analog Phase-Locked Loop
<u>Project Giants, LLC</u>	8,781,222	Method and Apparatus for Automatic Illuminant Compensation in Video Surveillance
<u>Project Giants, LLC</u>	8,355,567	Method and Apparatus for Implementing Moving Image Color Appearance Model for Video Quality Ratings Prediction
<u>Project Giants, LLC</u>	8,437,577	Methods and Systems for Image Registration
<u>Project Giants, LLC</u>	8,520,143	Method and Apparatus For Measuring Delay Within a Compressed Digital Stream
<u>Project Giants, LLC</u>	9,456,209	Method of Multiplexing H.264 Elementary Streams Without Timing Information Coded
<u>Project Giants, LLC</u>	8,731,053	Method of Multiplexing H.264 Elementary Streams Without Timing Information Coded
<u>Project Giants, LLC</u>	8,768,020	Method of Detecting Visual Stress and Photosensitive Epilepsy Triggers in Video & Mitigation Method
<u>Project Giants, LLC</u>	9,479,762	Stereoscopic Video Temporal Frame Offset Measurement
<u>Project Giants, LLC</u>	D677,184	Portable measurement instrument
<u>Project Giants, LLC</u>	9,541,494	Apparatus and Method to Measure Display Quality
<u>Project Giants, LLC</u>	15/264,820 / 10,405,002	Low Complexity Perceptual Visual Quality(PVQ) Evaluation for JPEG2000 Compressed Streams
<u>Project Giants, LLC</u>	15/642,095 / 10,587,872	Video Waveform Peak Indicator
<u>Project Giants, LLC</u>	15/859,329 / 10,581,965	Mirroring Flow Configurations for Internet Protocol Receivers
<u>Project Giants, LLC</u>	9,307,227	Stereoscopic image registration and color balance for evaluation display
<u>Project Giants, LLC</u>	9,055,279	System for Natural Language Assessment of Relative Color Quality
<u>Project Giants, LLC</u>	D714,792	Front panel for rack mounted video device
<u>Project Giants, LLC</u>	8,184,163	Methods and systems for detecting and locating skipped frames in a video sequence
<u>Project Giants, LLC</u>	6,924,834	Analog or serial digital video input with automatic video switch
<u>Project Giants, LLC</u>	6,912,010	Automated lip sync error correction
<u>Project Giants, LLC</u>	6,788,127	Circuit for variably delaying data

<u>REGISTERED OWNER</u>	<u>SERIAL NUMBER</u>	<u>DESCRIPTION</u>
<u>Project Giants, LLC</u>	7,268,783	Image Alias Rejection Using Shaped Statistical Filtering
<u>Project Giants, LLC</u>	9,591,304	Evaluation of Perceptual Visual Quality
<u>Project Giants, LLC</u>	10,405,002	Low Complexity Perceptual Visual Quality(PVQ) Eavluation for JPEG2000 Compressed Streams
<u>Project Giants, LLC</u>	9,392,267	System and Methods to Measure Noise and Generate Picture Quality Prediction From Source Having No Reference
<u>Project Giants, LLC</u>	8,351,499	Method of identifying inconsistent field dominance metadata in a sequence of video frames
<u>Project Giants, LLC</u>	8,319,888	Method of determining field dominance in a sequence of video frames
<u>Project Giants, LLC</u>	8,294,770	Systems and methods for spatially isolated artifact, dissection, classification, and measurement
<u>Project Giants, LLC</u>	8,229,229	Systems and methods for predicting video location of attention focus probability trajectories due to distractions
<u>Project Giants, LLC</u>	7,406,493	Up-sampling half-band reconstruction filtering
<u>Project Giants, LLC</u>	7,405,747	Extended K2T measurement of video
<u>Eco Digital, LLC</u>	10,491,968	TIME BASED VIDEO METADATA SYSTEM
<u>Eco Digital, LLC</u>	7,853,766	METHOD AND SYSTEM FOR AUTOMATED MIGRATION OF MEDIA ARCHIVES

Patent Applications

<u>APPLICANT</u>	<u>APPLICATION NO.</u>	<u>DESCRIPTION</u>
<u>Project Giants, LLC</u>	16/252,497	Test and Measurement Instrument with Buffer Model Delay Compensation