# 506307038 10/16/2020

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6353787

| SUBMISSION TYPE:      | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

#### **CONVEYING PARTY DATA**

| Name             | Execution Date |
|------------------|----------------|
| VIS MACHINA INC. | 10/16/2020     |

#### **RECEIVING PARTY DATA**

| Name:           | COLRSPACE INC.              |  |
|-----------------|-----------------------------|--|
| Street Address: | 535 PIERCE STREET UNIT 1102 |  |
| City:           | ALBANY                      |  |
| State/Country:  | CALIFORNIA                  |  |
| Postal Code:    | 94706                       |  |

# **PROPERTY NUMBERS Total: 2**

| Property Type  | Number       |
|----------------|--------------|
| Patent Number: | 10740694     |
| PCT Number:    | US2019045893 |

#### **CORRESPONDENCE DATA**

Fax Number:

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:** 16503530638

Email: Cal-ptomail@bakerbotts.com
Correspondent Name: CHRISTOPHER J. PALERMO
Address Line 1: 1001 PAGE MILL ROAD

Address Line 4: PALO ALTO, CALIFORNIA 94304

| ATTORNEY DOCKET NUMBER: | 088984.0101            |  |
|-------------------------|------------------------|--|
| NAME OF SUBMITTER:      | CHRISTOPHER J. PALERMO |  |
| SIGNATURE:              | /ChristopherJPalermo/  |  |
| DATE SIGNED:            | 10/16/2020             |  |

#### **Total Attachments: 12**

source=IP Transfer Vis Machina to Colrspace - signed#page1.tif source=IP Transfer Vis Machina to Colrspace - signed#page2.tif source=IP Transfer Vis Machina to Colrspace - signed#page3.tif source=IP Transfer Vis Machina to Colrspace - signed#page4.tif source=IP Transfer Vis Machina to Colrspace - signed#page5.tif

PATENT 506307038 REEL: 054077 FRAME: 0439



PATENT REEL: 054077 FRAME: 0440

### **ASSIGNMENT**

For good and valuable consideration, the receipt of which is hereby acknowledged, **Vis Machina Inc.**, a Delaware corporation having a business address of 535 Pierce Street Unit 1102, Albany, CA 94706 ("ASSIGNOR"), has sold, assigned, and transferred and does hereby sell, assign, and transfer to **Colrspace Inc.**, a Delaware corporation, having a business address of 535 Pierce Street Unit 1102, Albany, CA 94706 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following ("SUBJECT MATTER"):

1. **Vis Machina patents.** The entire worldwide right, title, and interest in all inventions and improvements that are disclosed in the following patents, patent application filed under 35 U.S.C. § 111(b), non-provisional patent application filed under 35 U.S.C. § 111(a), international patent application filed according to the Patent Cooperation Treaty (PCT), national or regional patent application of a country, regional office or jurisdiction other than the United States of America, or national phase U.S. patent application filed under 35 U.S.C. § 371 ("APPLICATION"):

US application 16/534763, filed August 7, 2019, US Pat. No. 10,740,694, issued August 11, 2020, titled SYSTEM AND METHOD FOR CAPTURE AND ADAPTIVE DATA GENERATION FOR TRAINING FOR MACHINE VISION;

PCT International Application PCT/US2019/045893, international filing date 9 August 2019, titled SYSTEM AND METHOD FOR CAPTURE AND ADAPTIVE DATA GENERATION FOR TRAINING FOR MACHINE VISION.

- 2. **Vis Machina patent derivatives.** The entire worldwide right, title, and interest in and to: (a) the APPLICATION; (b) all patent applications that claim priority to or from the APPLICATION; (c) all patent applications that the APPLICATION claims priority to or from; (d) all provisional, utility, divisional, continuation, substitute, renewal, reissue, national stage, regional stage, European Patent Office validations, and other patent applications related thereto which have been or may be filed in the United States or elsewhere in the world; (e) all patents (including reissues and re-examinations) which may be granted on the patent applications set forth in (a), (b), (c), or (d) above; and (f) all right of priority in the APPLICATION and in any underlying provisional or foreign patent application, together with all rights to recover damages for infringement of provisional rights.
- 3. **Synthetic data program code.** The entire worldwide right, title, and interest in and to the works of authorship consisting of the computer program source code set forth in **Schedule A**, which is attached hereto and incorporated herein, including each and every file set forth in said Schedule, and including all copyright, renewals of copyright, moral rights or droit morale, database rights or sui generis data rights, arising from or subsisting in said works of authorship under the laws of the United States of America, any State thereof, or any other country, agency or jurisdiction.
- 4. **Synthetic data generated to date.** The entire worldwide right, title, and interest in and to the works of authorship consisting of that dataset of synthetic data that ASSIGNOR has previously generated, created, and digitally stored as of the Effective Date set forth below at the Amazon Web Services (AWS) S3 bucket(s) named arn:aws:s3:::bg-ip.vismachina.com, and including all copyright, renewals of copyright, moral rights or

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droit morale, database rights or sui generis data rights, arising from or subsisting in said works of authorship under the laws of the United States of America, any State thereof, or any other country, agency or jurisdiction.

- 5. **Mobile material estimation program code.** The entire worldwide right, title, and interest in and to the works of authorship consisting of the computer program source code set forth in **Schedule B**, which is attached hereto and incorporated herein, including each and every file set forth in said Schedule, and including all copyright, renewals of copyright, moral rights or droit morale, database rights or sui generis data rights, arising from or subsisting in said works of authorship under the laws of the United States of America, any State thereof, or any other country, agency or jurisdiction.
- 6. **Mobile material estimation data generated to date.** The entire worldwide right, title, and interest in and to the works of authorship consisting of that dataset of mobile material estimation data that ASSIGNOR has previously generated, created, and digitally stored as of the Effective Date set forth below at the Amazon Web Services (AWS) S3 bucket(s) named arn:aws:s3:::unlockdata03642-unlockenv, and including all copyright, renewals of copyright, moral rights or droit morale, database rights or sui generis data rights, arising from or subsisting in said works of authorship under the laws of the United States of America, any State thereof, or any other country, agency or jurisdiction.

ASSIGNOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's name. ASSIGNOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. ASSIGNOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

ASSIGNOR represents that ASSIGNOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the ASSIGNOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

ASSIGNOR grants the attorney of record, and to ASSIGNEE as its separate attorney-infact, the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent & Trademark Office, or a patent office of any other country, regional agency or jurisdiction, for recordation of this document.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

IN WITNESS WHEREOF, the authorized representatives of the ASSIGNOR and ASSIGNEE have set their hands below with effect as of the Effective Date of October 15, 2020.

VIS MACHINA INC.

COLRSPACE, INC.

Michael Fu (Oct. 16, 2020 10:21 PDT)

By Michael Fu (Oct 16, 2020 10:21 POT)

Michael Fu, President

Michael Fu, President

# **SCHEDULE A**

patent/README.md
patent/synthdata/code/rejection.py
patent/synthdata/code/rejection\_test.py
patent/synthdata/code/plot.py
patent/synthdata/code/requirements.txt
patent/synthdata/code/util.py
patent/synthdata/code/util\_test.py
patent/synthdata/code/README.md
patent/synthdata/code/main.py
product/designs/VisMachinaProductDesigns.pdf
product/README.md
README.md

#### **SCHEDULE B**

.pylintrc

CMakeLists.txt

test/show\_n\_tell.sh

test/annotate4.py

test/color.py

test/python/test\_vm\_ext/test\_vm\_ext\_read.py

test/python/test\_vm\_ext/\_\_init\_\_.py

test/python/test\_vm\_unlock/test\_vm\_ltc\_util.py

test/python/test\_vm\_unlock/test\_vm\_exr.py

test/python/test\_vm\_unlock/test\_vm\_base.py

test/python/test\_vm\_unlock/test\_vm\_align\_images.py

test/python/test\_vm\_unlock/\_\_init\_\_.py

test/python/test vm unlock/test vm dataset.py

test/python/test\_vm\_unlock/test\_vm\_marker.py

test/python/test\_vm\_unlock/test\_vm\_color.py

test/python/test\_vm\_unlock/test\_vm\_camera.py

test/python/test\_vm\_unlock/test\_vm\_keras.py

test/python/test\_vm\_unlock/test\_vm\_np\_math.py

test/python/test\_vm\_unlock/test\_vm\_forward\_render.py

test/python/test\_vm\_unlock/test\_vm\_scene.py

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test/python/test\_vm\_unlock/test\_vm\_color\_io.py

test/python/test\_vm\_unlock/test\_vm\_hip.py

test/python/test\_vm\_unlock/test\_vm\_canvas.py

test/pmult.py

test/render.py

test/gbuffer.py

test/debevec\_keras.py

test/plane\_fit.py

test/debevec\_nk.py

test/vm\_ext\_qr.py

test/minimize.py

test/debevec.nknc

test/color\_fit.py

test/image\_formats.sh

test/debevec.py

test/keras\_interp.py

test/boston\_housing.py

test/color\_csv\_to\_json\_html.py

test/mnist\_autoencoder.py

test/swift/playground/user\_config\_view\_controller.playground/playground.xcworkspace/content s.xcworkspacedata

test/swift/playground/user\_config\_view\_controller.playground/playground.xcworkspace/xcshare ddata/IDEWorkspaceChecks.plist

test/swift/playground/user\_config\_view\_controller.playground/Contents.swift test/swift/playground/user\_config\_view\_controller.playground/timeline.xctimeline test/swift/playground/user\_config\_view\_controller.playground/contents.xcplayground test/swift/test vm unlock/test vm unlock error.swift

test/swift/test\_vm\_unlock/CMakeLists.txt

test/swift/test\_vm\_unlock/test\_vm\_unlock\_exposures.swift

test/swift/test\_vm\_unlock/test\_vm\_unlock\_fsm.swift

test/camera\_origin.py

test/chart\_qrcode.py

test/color\_csv\_to\_xrite\_chart.py

test/scrape\_names.py

test/mmult.py

test/add\_exif.py

test/debevec\_reverse.py

test/color\_sg.py

test/feature\_matching.py

test/simple.py

test/aruco\_markers.py

test/fsm.py

test/annotate3.py

test/pano.py

test/test\_vm\_ext.py

test/chart\_to\_canvas.py

test/test\_qrcode.py

etc/xcode/user/WorkspaceSettings.xcsettings

etc/xcode/shared/WorkspaceSettings.xcsettings

etc/ltc/charlie.json

etc/ltc/ggx.json

etc/ltc/disney\_diffuse.json

etc/ltc/beckman.json

etc/ltc.npz

etc/notes.txt

etc/color/farrow-ball-fan.csv

etc/history.sh

etc/requirements/aws.txt

etc/requirements/dev.txt

etc/requirements/ml-gpu.txt

etc/requirements/run\_27.txt

etc/requirements/ml.txt

etc/requirements/run.txt

etc/rebuild\_swift\_and\_python\_module.sh

etc/aws update dataset.sh

etc/vcpkg/x64-linux-dynamic.cmake

etc/vcpkg/x64-linux.cmake

etc/vcpkg/debug\_vcpkg\_builds.patch

etc/vcpkg/vcpkg.json etc/vcpkg/x64-osx-dynamic.cmake etc/vcpkg/x64-osx.cmake etc/vcpkg/ports/libheif/fix-link-libde265.patch etc/vcpkg/ports/libheif/fix-threads.patch etc/vcpkg/ports/libheif/portfile.cmake etc/vcpkg/ports/libheif/fix-find-libde265.patch etc/vcpkg/ports/libheif/CONTROL etc/vcpkg/ports/quirc/CMakeLists.txt etc/vcpkg/ports/quirc/patch-for-msvc.patch etc/vcpkg/ports/quirc/portfile.cmake etc/vcpkg/ports/quirc/CONTROL etc/vcpkg/ports/libde265/de265-version.h etc/vcpkg/ports/libde265/portfile.cmake etc/vcpkg/ports/libde265/fix\_config\_include\_path.patch etc/vcpkg/ports/libde265/fix\_library\_linkage.patch etc/vcpkg/ports/libde265/CONTROL etc/vcpkg/ports/openexr/fix\_clang\_not\_setting\_modern\_cplusplus.patch etc/vcpkg/ports/openexr/fix\_linux\_static\_library\_names.patch etc/vcpkg/ports/openexr/portfile.cmake etc/vcpkg/ports/openexr/fix\_install\_ilmimf.patch etc/vcpkg/ports/openexr/FindOpenEXR.cmake etc/vcpkg/ports/openexr/vcpkg-cmake-wrapper.cmake etc/vcpkg/ports/openexr/CONTROL etc/vcpkg/ports/openimageio/fix-tools-path.patch etc/vcpkg/ports/openimageio/fix\_static\_build.patch etc/vcpkg/ports/openimageio/fix-install-paths.patch etc/vcpkg/ports/openimageio/fix-dependfmt.patch etc/vcpkg/ports/openimageio/fix-python-version2.patch etc/vcpkg/ports/openimageio/fix-python-version.patch etc/vcpkg/ports/openimageio/portfile.cmake etc/vcpkg/ports/openimageio/fix-heif-link.patch etc/vcpkg/ports/openimageio/fix-dependency.patch etc/vcpkg/ports/openimageio/fix-config-cmake.patch etc/vcpkg/ports/openimageio/vcpkg-cmake-wrapper.cmake etc/vcpkg/ports/openimageio/CONTROL etc/vcpkg/ports/zxing-cpp/portfile.cmake etc/vcpkg/ports/zxing-cpp/CONTROL etc/aws\_update\_config.sh etc/aws\_upload\_alex.sh etc/aws\_upload\_resource.sh etc/aws\_upload.sh etc/calibrate.py etc/test.sh third\_party/swift\_concurrency\_build/CMakeLists.txt

third party/swift concurrency build/test/CMakeLists.txt third party/openexr build/cmake build.sh third\_party/any\_codable\_build/CMakeLists.txt third party/any codable build/Info.plist third\_party/swift\_argument\_parser\_build/CMakeLists.txt third\_party/objc\_bridges\_build/module.modulemap.in third party/objc bridges build/CMakeLists.txt .gitignore .style.yapf doc/index.rst doc/CMakeLists.txt doc/conf.py doc/PROVISIONAL\_PATENT.rst doc/build cmd.rst doc/PLAN.rst README.rst .vscode/settings.json .vscode/c\_cpp\_properties.json .vscode/tasks.json resource/CMakeLists.txt resource/color/ColorCheckerSG\_After\_Nov2014.txt resource/color/ColorChecker24 After Nov2014.txt resource/icon/vm.png resource/icon/CMakeLists.txt resource/icon/record-button.png resource/icon/download-button.png resource/icon/swap-button.png resource/icon/record-button-active.png resource/metadata/exif.pkl dumb\_dan.xcodeproj/project.pbxproj dumb\_dan.xcodeproj/project.xcworkspace/contents.xcworkspacedata dumb\_dan.xcodeproj/project.xcworkspace/xcshareddata/IDEWorkspaceChecks.plist dumb\_dan.xcodeproj/project.xcworkspace/xcshareddata/WorkspaceSettings.xcsettings protoclr.xcodeproj/project.pbxproj protoclr.xcodeproj/project.xcworkspace/contents.xcworkspacedata protoclr.xcodeproj/project.xcworkspace/xcshareddata/IDEWorkspaceChecks.plist protoclr.xcodeproj/project.xcworkspace/xcshareddata/WorkspaceSettings.xcsettings src/bin/CMakeLists.txt src/bin/forward\_ltc\_render.py src/bin/vm\_dataset\_csv src/bin/unlock train src/bin/unlock src/bin/hunlock

src/python/vm\_unlock/vm\_unlock\_commands.py

src/python/vm\_unlock/vm\_base.py

src/python/vm unlock/vm camera.py src/python/vm\_unlock/vm\_forward\_solver.py src/python/vm\_unlock/CMakeLists.txt src/python/vm unlock/vm nk.py src/python/vm\_unlock/vm\_forward\_render.py src/python/vm\_unlock/vm\_marker.py src/python/vm\_unlock/vm\_annotator.py src/python/vm\_unlock/vm\_canvas.py src/python/vm\_unlock/vm\_hdr.py src/python/vm\_unlock/vm\_ltc\_util.py src/python/vm\_unlock/vm\_houdini\_json.py src/python/vm unlock/ init .py src/python/vm\_unlock/vm\_hip.py src/python/vm unlock/vm np math.py src/python/vm\_unlock/vm\_base\_const.py src/python/vm\_unlock/vm\_scene.py src/python/vm\_unlock/vm\_color\_io.py src/python/vm\_unlock/vm\_gltf.py src/python/vm\_unlock/vm\_cmd.py src/python/vm\_unlock/vm\_dataset.py src/python/vm\_unlock/vm\_exr.py src/python/vm\_unlock/vm\_color.py src/python/vm\_unlock/vm\_keras.py src/python/vm\_unlock/vm\_plot.py src/python/vm\_unlock/vm\_geom\_fit.py src/python/vm\_unlock/vm\_align\_images.py src/python/vm\_ext/CMakeLists.txt src/python/vm\_ext/module.cpp src/python/vm\_ext/exr.h src/python/vm\_ext/exr.cpp src/python/vm\_ext/img\_types.h src/python/vm\_ext/core\_graphics.h src/python/vm\_ext/core\_graphics.cpp src/html/vm\_dataset\_csv/test.html src/html/vm\_dataset\_csv/app.html src/glsl/vm\_shaders/calibration.vertex.glsl src/glsl/vm\_shaders/ltc\_quad.fragment.glsl src/glsl/vm\_shaders/CMakeLists.txt src/glsl/vm\_shaders/gbuffers.fragment.glsl src/glsl/vm\_shaders/test.fragment.glsl src/glsl/vm\_shaders/calibration.fragment.glsl src/glsl/vm\_shaders/prim.vertex.glsl src/glsl/vm\_shaders/sampling.fragment.glsl src/swift/CMakeLists.txt src/swift/vm\_unlock/vm\_unlock.mm

src/swift/vm unlock/vm error.swift src/swift/vm unlock/vm detect.swift src/swift/vm\_unlock/CMakeLists.txt src/swift/vm unlock/vm unlock-Bridging-Header.h src/swift/vm\_unlock/vm\_exposure\_config.swift src/swift/vm\_unlock/vm\_cgimage.swift src/swift/vm unlock/vm alert.swift src/swift/vm\_unlock/vm\_unlock.swift src/swift/vm unlock/ext/ext.cc src/swift/vm unlock/ext/ext.h src/swift/vm unlock/vm unlock.h src/swift/vm unlock/MacOSXFrameworkInfo.plist.in src/swift/vm\_unlock/vm\_fsm.swift src/swift/vm unlock/vm camera capture.swift src/swift/vm\_unlock/vm\_ui\_view\_ext.swift src/swift/vm\_unlock/vm\_util.swift src/swift/vm\_unlock/vm\_camera\_controller.swift src/swift/vm\_unlock/vm\_camera\_config.swift src/swift/vm unlock/vm exr.swift src/swift/vm\_unlock/Info.plist src/swift/xor\_xenon/MacOSXBundleInfo.plist.in src/swift/xor xenon/CMakeLists.txt src/swift/xor\_xenon/main.swift src/swift/Gemfile src/swift/Podfile src/swift/dumb\_dan/capture\_view\_controller.swift src/swift/dumb\_dan/title\_view\_controller.swift src/swift/dumb\_dan/user\_config\_view\_controller.swift src/swift/dumb\_dan/root\_view\_controller.swift src/swift/dumb\_dan/AppDelegate.swift src/swift/dumb\_dan/awsconfiguration.json src/swift/dumb\_dan/upload\_view\_controller.swift src/swift/dumb\_dan/Info.plist src/swift/dumb\_dan/launch\_screen.storyboard src/swift/vm\_exr/vm\_exr.h src/swift/vm\_exr/CMakeLists.txt src/swift/vm\_exr/vm\_exr.cc src/swift/vm\_exr/module.modulemap src/swift/vm\_exr/Info.plist src/swift/protoclr/capture\_view\_controller.swift src/swift/protoclr/idle\_screen.storyboard src/swift/protoclr/title\_view\_controller.swift src/swift/protoclr/idle\_view\_controller.swift src/swift/protoclr/root\_view\_controller.swift src/swift/protoclr/AppDelegate.swift

src/swift/protoclr/Info.plist src/swift/protoclr/launch\_screen.storyboard

PATENT REEL: 054077 FRAME: 0451

# IP Transfer Vis Machina to Colrspace

Final Audit Report

Created: 2020-10-16

CHRISTOPHER PALERMO (christopher.palermo@bakerbotts.com) By:

Status:

CBJCHBCAABAABAXbKr4gmy9ERWlhKPB0L0NBKtS3LghG Transaction ID:

# "IP Transfer Vis Machina to Colrspace" History

- Document created by CHRISTOPHER PALERMO (christopher.palermo@bakerbotts.com) 2020-10-16 - 4:44:53 PM GMT- IP address: 38.142.72.122
- Document emailed to Michael Fu (mike@colrspace.com) for signature 2020-10-16 - 4:45:33 PM GMT
- Email viewed by Michael Fu (mike@colrspace.com) 2020-10-16 - 5:06:38 PM GMT- IP address: 24.7.75.254
- Document e-signed by Michael Fu (mike@colrspace.com) Signature Date: 2020-10-16 - 5:21:45 PM GMT - Time Source: server- IP address: 24.7.75.254
- Agreement completed. 2020-10-16 - 5:21:45 PM GMT



REEL: 054077 FRAME: 0452

**PATENT RECORDED: 10/16/2020**