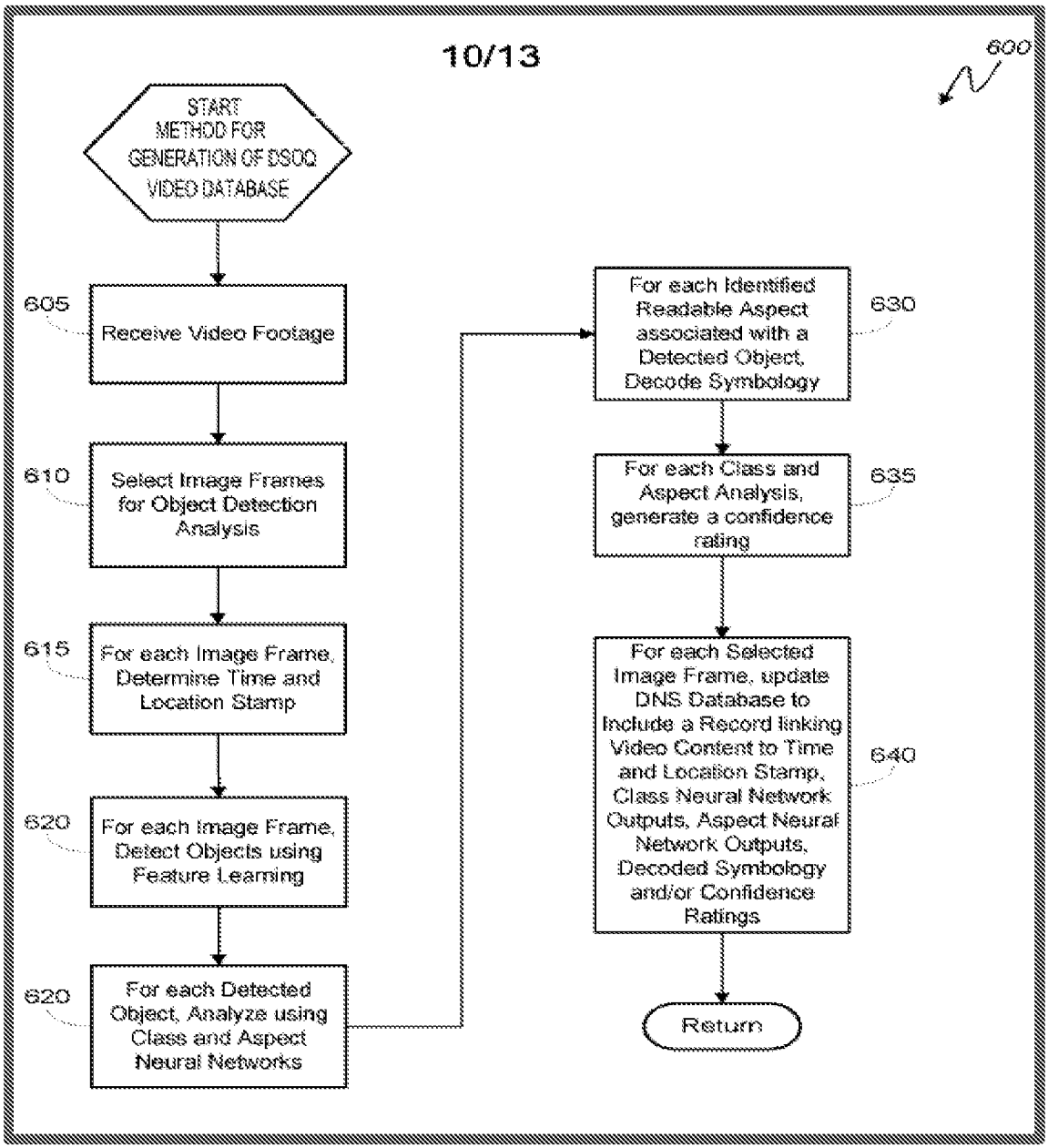
Remarks

The Applicant and the undersigned thank Examiner Jia for the careful review of this application and for granting the telephonic interview of May 18, 2020, summarized below. The Applicant has amended the claims, where Claims 1-20 remain pending in the patent application. Claims 1, 9, and 15 are the three independent claims. The Applicant respectfully requests reconsideration and allowance of this application in view of the remarks provided below.

Support for the claim amendments can be found in at least FIGs. 6 and 9 reproduced and annotated for the Examiner's benefit and consideration below.



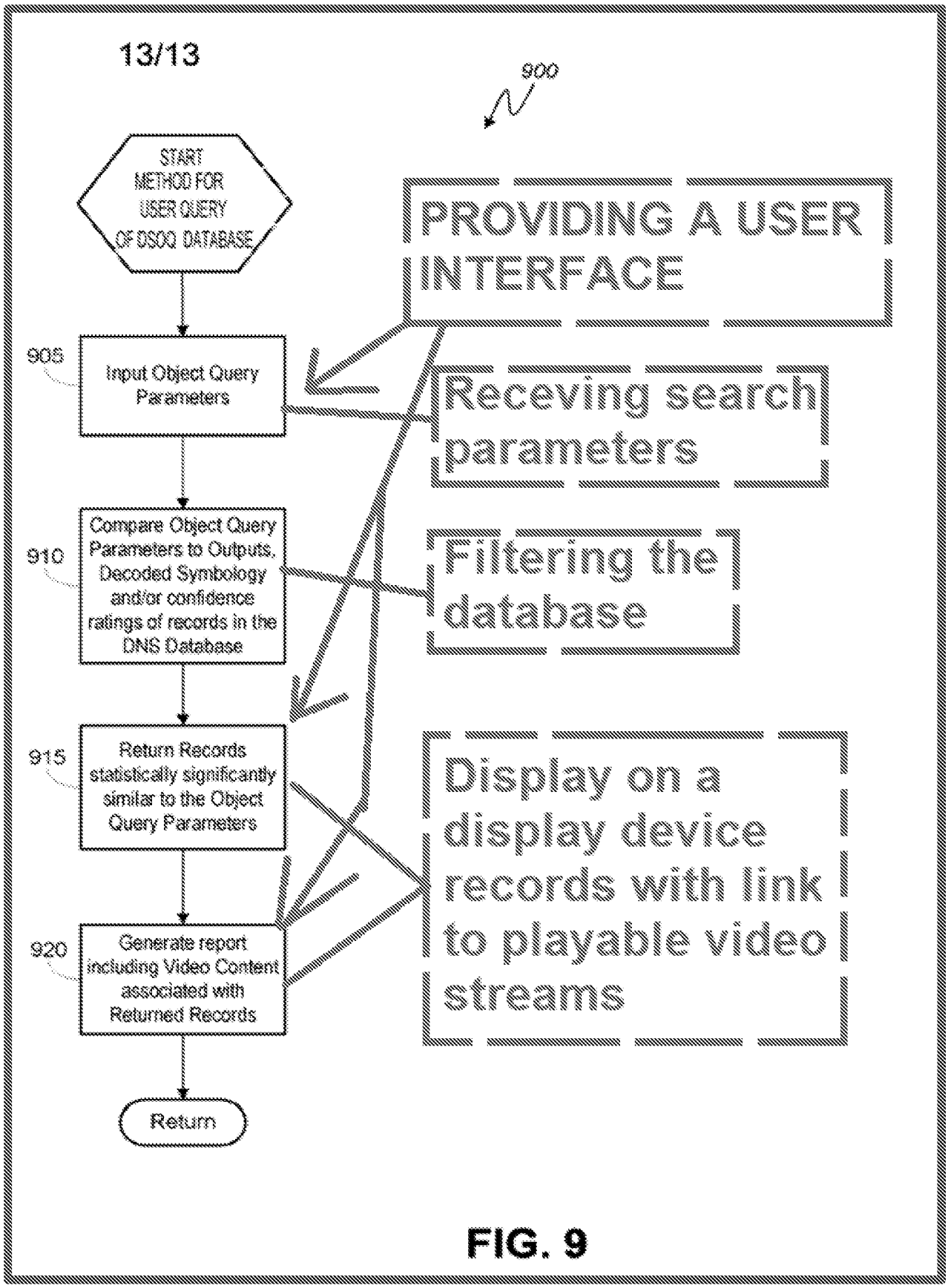

13/13
900
START METHOD FOR USER QUERY OF DSOQ DATABASE
905
Input Object Query Parameters
910
Compare Object Query Parameters to Outputs, Decoded Symbology and/or confidence ratings of records in the DNS Database
915
Return Records statistically significantly similar to the Object Query Parameters
920
Generate report including Video Content associated with Returned Records
Return
PROVIDING A USER INTERFACE
Receving search parameters
Filtering the database
Display on a display device records with link to playable video streams

FIG. 9

Further, the Applicant has provided the following claim support chart for the Examiner's benefit and consideration which outlines direct support in the original application text for the amended claim elements:

AMENDED CLAIM ELEMENT	SUPPORT IN ORIGINAL APPLICATION
providing a user interface for the database	**FIG. 9; Steps 905-920**; "…the method may query the database using input query parameters…", para. [008]; "…FIG. 9 illustrates a flow chart of an exemplary method 900 for user query a DSOQ video database 120 according to an embodiment of the solution…", para. [009]
for receiving one or more search parameters, each search parameter comprising both time data and location data, and at least one of object class data and object aspect data; receiving one or more search parameters with the user interface	**FIG. 9; Step 905**; "…With the video footages stored in the database in association with not **only time and location data**, but also with **object classification data, aspect data for the objects**, confidence scores, etc., the method may query the database using input query parameters that comprise one or more of a target object class, a target aspect, a confidence score, etc…", para. [008]; "…Beginning at block 905, the method 900 may receive input query parameters. The input query parameters may be in the form of a seed record ('return all records statistically similar to this one') or may be in the form of **object classes, aspects and/or time and location** ('return all records with content of a male wearing blue jeans on MM/DD/YYYY within this geographic zone')…", para. [0156]
filtering the database using the one or more search parameters	**FIG. 9; Steps 910-915**; Using the input query parameters, at block 910 the search module 156 may **compare the input query parameters to outputs associated with and stored with video footage and/or image frames in the DSOQ database 120**. In this way, the search module 156 may statistically determine that some or all of the input query parameters are consistent with, or statistically likely to be the consistent with, content captured in various video footage and/or image frames stored in database 120…", para. [157]; At block 915, the search module 156 may return to the user any and/or all records in database 120 that contain content which is statistically significantly similar to the input query parameters. It is envisioned that users may modify the statistical threshold in an effort to **return records of footage that have been analyzed to contain content that is very consistent with the input query parameters**…", para. [158].

AMENDED CLAIM ELEMENT	SUPPORT IN ORIGINAL APPLICATION
displaying on a display device one or more records from the database matching the search parameters, wherein each of the one or more records from the database comprises a link to a playable video stream containing an object matching the one or more search parameters	**FIG. 9; Steps 915-920**; "…In this way, the exemplary method may ***return for viewing*** one or more of ***the plurality of video streams*** if the input query parameters are statistically significantly the same as the respective object class and aspect data associated with the one or more of the plurality of video streams. The method may also generate a report in one of a timeline format, a map format and an object format…", para. [008]; "…At block 915, the search module 156 may return to the user **any and/or all records** in database 120 that contain content which is statistically significantly similar to the input query parameters. It is envisioned that users may modify the statistical threshold in an effort to return ***records of footage***….", para. [158]; "…At block 920, search module 156 may generate a report **including the video footage associated with identified records**. It is envisioned that the report may take any number of formats and/or include any number of information above and beyond the returned video footage and records. For example, it is envisioned that embodiments of the solution may display the returned video footage in a timeline format (using the time stamp metadata), or in a map format (**such as by linking the returned video footages to locations on a map overlay**), or in an object list format (everything that was seen in a certain location by a given surveillance device, organized by content), or in an "out of place" format (***list of footage based on containing content that is not consistent with expected content at the given time and location***, as might be determined by the historical analysis module 162 and/or alert triggering module 158). The method 900 returns."; para. [160].

Summary of May 18, 2020 Telephonic Interview

The Applicant's representative greatly appreciates the Examiner granting the telephone interview of May 18, 2020. During this telephone interview, the Applicant's representative pointed out to Examiner Jia the direct support of the claim amendments found in FIGs. 6 and 9 of the original application. The Applicant's representative described how the newly claimed features of providing a user interface allows the video stream database to be searched and to return records

that comprise a link to a playable video stream containing an object matching the one or more searched parameters.

The Applicant's representative explained how the prior art is focused on producing reports and producing data or alerts from video streams, or permitting physical access to a secured area based on the video streams.

Meanwhile, the present application provides a video stream database that returns records comprising playable video streams so that a user may review the video streams containing the searched objects. The video stream database may comprise video streams taken from various disparate / different sources, such as from government cameras and cameras owned by private citizens, as set forth in dependent claims 3, 10, and 17.

Examiner Jia indicated that he understood the amendments to the claims and that an updated search would probably be needed. Examiner Jia also indicated that this claim amendment overcomes the prior art of record.

The Applicant and the undersigned request Examiner Jia to review this interview summary and to electronically annotate the record with the indication "Interview record OK" on the paper recording the substance of the interview as set forth in MPEP § 713.04, p. 700-268, right column, last sentence (REV 08.2017, Jan 2018).

Claim Interpretation – 35 U.S.C. §112(f)

The Examiner has interpreted several elements of the Claims 1-20 under 35 U.S.C. §112(f) and has interpreted structure(s) in the specification corresponding to these elements. The Applicant generally agrees with the Examiner's interpretation of these elements. However, the Applicant notes that the structure(s) identified by the Examiner are not exhaustive and that other structure(s) (and/or combination of structure(s)) performing these functions, beyond those identified by the Examiner, may be present in the specification, as understood by one of ordinary skill in the art.

Claim Rejections – 35 U.S.C. §103

The Examiner has rejected Claims 1, 2, 7-9, 14-16, and 20 under 35 U.S.C. §103 as being unpatentable over Saitwal et al. (U.S. Patent Publication No. 2013/0241730) (hereafter, the

"Saitwal reference") in view of Danielsson et al. (U.S. Patent Publication No. 2018/0107880)(hereafter, the "Danielsson reference:").

The Examiner has rejected Claims 3-6, 10-13, and 17-19 under 35 U.S.C. §103 as being unpatentable over the Saitwal reference in view of the Danielsson reference), and further in view of Kant et al. (U.S. Patent Publication No. 2016/0275375)(hereafter, the "Kant reference").

The Applicant respectfully traverses this rejection in view of the remarks set forth below.

Independent Claims

The Applicant's amended independent Claims are not anticipated or made obvious by the three references listed above because these three references fail to disclose or suggest the combination of: capturing a first video stream, wherein the first video stream comprises a series of image frames and each image frame comprises content; determining time data and location data associated with the first video stream; analyzing the content of one or more image frames of the first video stream to identify objects; for each identified object in the first video stream, applying one or more neural network algorithms to classify the identified object and aspects of the identified object; creating a first database record by storing the first video stream in a database, wherein the first database record includes the first video stream in association with: the time data and location data; and the object class data and object aspect data; providing a user interface for the database for receiving one or more search parameters, each search parameter comprising both time data and location data, and at least one of object class data and object aspect data; receiving one or more search parameters with the user interface; filtering the database using the one or more search parameters; and displaying on a display device one or more records from the database matching the search parameters, wherein each of the one or more records from the database comprises a link to a playable video stream containing an object matching the one or more search parameters, as recited in the amended independent Claims. [Emphasis supplied.]

As noted during the telephonic interview of May 18, 2020 summarized above, the prior art of record is not concerned with providing a user interface that **allows the video stream database to be searched and to return records that comprise a link to a playable video stream containing an object matching the one or more searched parameters** [Emphasis supplied.].

The prior art is focused on producing reports and producing data or alerts from video, or permitting physical access to a secured area based on the video streams (i.e. see Saitwal abstract

discussing alerts based on video streams; see Danielsson abstract discussing physical access control based on video streams; and see Kant abstract discussing reports generated based on video streams).

See also FIGs. 4-5 of the Kant reference reproduced below which illustrates the reports produced from video:

FIGS. 4-5 OF KANT - REPORTS NOT PRODUCING PLAYABLE VIDEO CONTENT

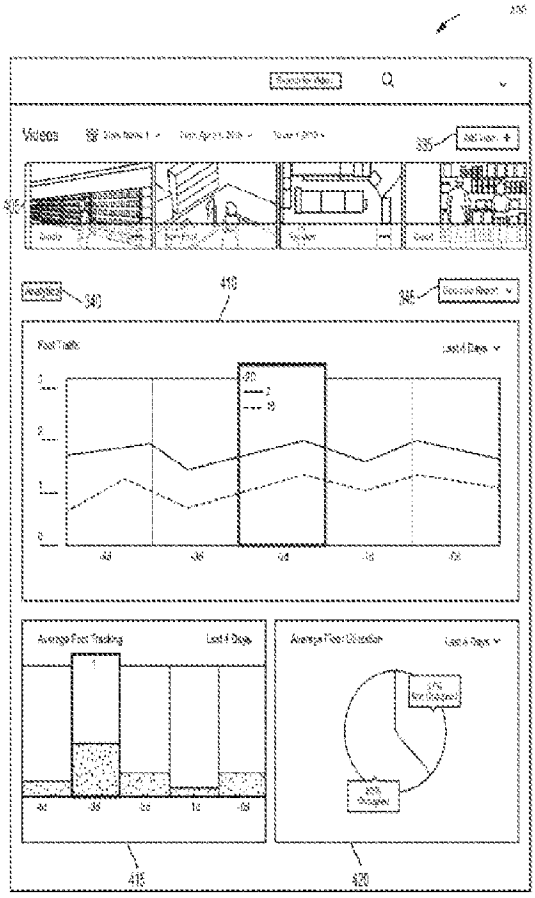


FIG. 4

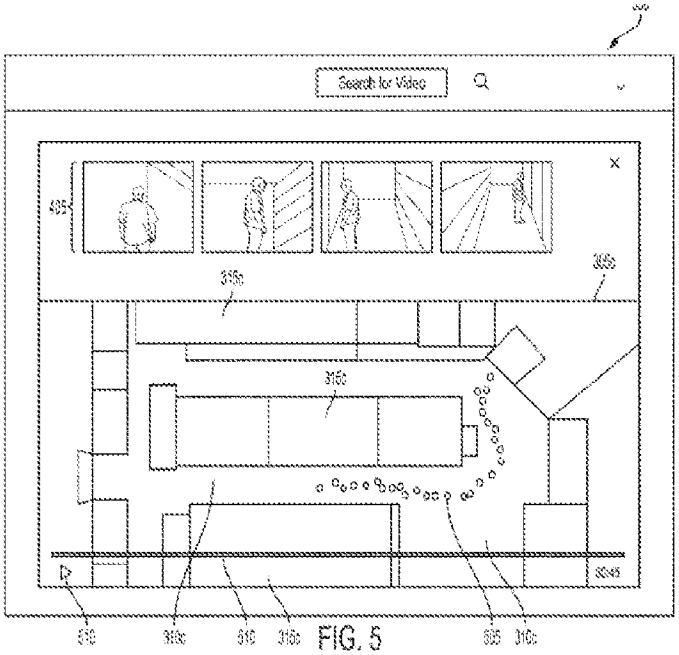


FIG. 5

Meanwhile, the present application recites claims which provide a video stream database that returns records comprising playable video streams so that a user may review the video streams containing the searched objects. The video stream database may comprise video streams taken from various disparate / different sources, such as from government cameras and cameras owned by private citizens, as set forth in dependent claims 3, 10, and 17.

In view of the differences between the Applicant's amended independent Claims 1, 9, & 15 and the three references noted above, one of ordinary skill in the art would recognize that these

references alone or in combination do not disclose or suggest the recitations set forth in the Applicant's amended independent Claims 1, 9, & 15. Accordingly, the Applicant respectfully requests reconsideration and allowance of amended independent Claims 1, 9, & 15.

Dependent Claims 2-8, 10-14, and 16-20

The Applicant respectfully submits that the above-identified dependent claims are allowable because the independent claims from which they depend are patentable over the cited reference. The Applicant also respectfully submits that these dependent claims recite patentable features that are not taught or suggested by the prior art of record.

The rejections of these dependent claims are believed to be moot in view of their independent base claims being allowable over the art of record for the reasons described above with reference to independent Claims 1, 9, and 15. For at least these reasons, the Applicant respectfully requests that the Examiner withdraw the pending rejections of dependent Claims 2-8, 10-14, and 16-20.

CONCLUSION

The foregoing is submitted as a full and complete response to the Non-Final Office Action transmitted on December 19, 2019. The Applicant and the undersigned thank Examiner Jia for the consideration of these remarks. The Applicant has submitted remarks to traverse the pending rejections and to identify the differences between the Claims and the prior art. The Applicant respectfully submits that the present application is in condition for allowance. Such Action is hereby courteously solicited.

[Remainder of this page intentionally left blank]

Should the Examiner have any comment regarding the Applicant's response or believe that a teleconference would expedite prosecution of the pending claims, Applicant requests that the Examiner telephone Applicant's undersigned registered patent lawyer listed below.

Respectfully submitted,

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FOR THE APPLICANT
Customer Number 35856

Date: 19 MAY 2020

By: **/SPW/**

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