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 SAN DIEGO COUNTY REGIONAL AIRPORT
 8 AUTHORITY

9
 10 **UNITED STATES DISTRICT COURT**
 11 **SOUTHERN DISTRICT OF CALIFORNIA**

12 PARK ASSIST, LLC,
 13
 Plaintiff,
 14
 v.
 15 SAN DIEGO COUNTY REGIONAL
 16 AIRPORT AUTHORITY and ACE
 PARKING MANAGEMENT, INC.,
 17
 Defendants.

Case No. 3:18-cv-02068-BEN-MDD
**MEMORANDUM OF POINTS AND
 AUTHORITIES IN SUPPORT OF
 SAN DIEGO COUNTY REGIONAL
 AIRPORT AUTHORITY'S
 MOTION TO DISMISS AMENDED
 COMPLAINT UNDER
 35 U.S.C. § 101**

Date: December 10, 2018
 Time: 10:30 a.m.
 Ctrm: 5A
 Judge: Hon. Roger T. Benitez

Demand for Jury Trial

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1 Park Assist, LLC alleges infringement of U.S. Patent No. 9,594,956 (the
2 “’956 patent”), which is directed to gathering, analyzing, and transmitting
3 information about occupancy status and permits in a parking lot. But, under well-
4 established Supreme Court and Federal Circuit law, claims directed to the abstract
5 idea of processing information are not eligible for patenting under 35 U.S.C. § 101,
6 and the ’956 patent claims lack any transformative element that creates patentable
7 subject matter. The Court should invalidate the claims of the ’956 patent and
8 dismiss the Amended Complaint with prejudice.

9 I. INTRODUCTION

10 For more than 150 years, courts have recognized that abstract ideas fall
11 within a judicial exception to § 101 of the Patent Act and cannot be patented.
12 Within the last decade, a series of Supreme Court decisions—*Bilski*, *Mayo*, and
13 *Alice*—radically changed the application of this exception. No longer can patentees
14 obtain claims directed to abstract ideas, like the analysis of information, simply by
15 reciting generic machines or computers in their claims.

16 The ’956 patent is a prime example of unpatentable subject matter under this
17 Supreme Court authority: claims that use generic computer components to carry
18 out the gathering, storage, analysis, and transfer of information. In this case, the
19 information is used for the mundane tasks of determining whether there is a car in a
20 parking space, whether the space is properly designated as occupied, and whether
21 that car has a permit for that space—which humans have done in their minds, and
22 with pen and paper, for years. The ’956 patent is also a prime example of a
23 patentee attempting to use the “draftsman’s art” of reciting computer processing to
24 circumvent the requirements of § 101. While Park Assist, LLC (“Park Assist”)
25 successfully used this drafting technique to escape § 101 rejections during
26 prosecution of its patent, the Supreme Court’s *Alice* decision, and numerous
27 Federal Circuit decisions since then, expressly condemn Park Assist’s strategy.
28 The Court should apply this established law and rule that the claims of the ’956

1 patent are ineligible under § 101.

2 **II. BACKGROUND**

3 **A. The Parties**

4 This motion should be resolved based on the pleadings and materials
5 incorporated therein. *See Aatrix Software, Inc. v. Green Shades Software, Inc.*, 882
6 F.3d 1121, 1125 (Fed. Cir. 2018). The San Diego County Regional Airport
7 Authority (“SDCRAA”) provides this brief background of the parties solely to
8 furnish context for the Court.

9 **1. The San Diego County Regional Airport Authority**

10 SDCRAA is an independent agency that was created in 2003 to operate the
11 San Diego International Airport, plan for the future air transportation needs of the
12 region, and serve as the region’s Airport Land Use Commission. Following the
13 extensive renovation of Terminal 2, SDCRAA requested bids for the construction
14 of a roughly 2,900-space parking plaza adjacent to Terminal 2. This project was
15 completed in stages beginning in approximately May 2018. SDCRAA did not
16 directly manage the construction of the Terminal 2 parking plaza, nor did it directly
17 select the vendors, subcontractors, or parking systems for the plaza.

18 Among other technology systems in the Terminal 2 parking plaza is an
19 INDECT parking guidance system that provides counts of available spots in various
20 sections of the parking plaza and also provides LED indicators over groups of spots
21 to alert drivers to available parking spaces. The INDECT parking guidance system
22 in the parking plaza works autonomously, without user/operator review of parking
23 space occupancy. The INDECT parking guidance system in the parking plaza has
24 no interaction with vehicle permits, nor are there currently any permit- or preferred
25 parking-based parking spaces in the parking plaza. SDCRAA does not operate the
26 parking plaza or the INDECT parking guidance system. (*See* ECF No. 1 ¶ 17 (“On
27 information and belief, SDCRAA has contracted and entered into an agreement
28 with Ace Parking to operate the Airport Parking System.”).)

1 **2. Ace Parking Management, Inc.**

2 Ace Parking Management, Inc. (“Ace”) is a vendor for SDCRAA. Ace
3 provides management and operations services for all SDCRAA-owned parking lots
4 at the San Diego International Airport, including the Terminal 2 parking plaza. Ace
5 has no access to the INDECT parking guidance system, no way to view images
6 captured by the system, and no regular interaction with the system.

7 **3. Park Assist, LLC**

8 Park Assist, a subsidiary of the Dutch corporation TKH Group NV (ECF No.
9 3), sells parking guidance systems. Park Assist submitted a bid for the installation
10 of its parking system to the Terminal 2 parking plaza general contractor, but lost the
11 contract to the INDECT parking system. (*See* ECF No. 23 ¶ 32.)

12 **B. The ’956 Patent**

13 The ’956 patent issued on March 14, 2017, based on a PCT application filed
14 on May 8, 2011. (ECF No. 23-1.) It is entitled “Method and System for Managing
15 a Parking Lot Based on Intelligent Imaging.” (*Id.*) The patent’s abstract provides
16 the following description of the invention:

17 To manage a plurality of parking spaces, one or more
18 images are acquired, with each parking space appearing
19 in at least one image. Periodically acquired images of
20 occupancy and identity are used in directing a customer
21 to a parked vehicle. Periodically acquired images of just
22 occupancy are used in controlling respective
23 environmental aspects, such as illumination and
24 ventilation, of the parking spaces. For these purposes, the
25 images are classified automatically as “vacant” or
26 “occupied”, and are displayed along with their
27 classifications so that the classifications can be corrected
28 manually. (*Id.*)

26 The issued claims of the ’956 patent, however, have nothing to do with
27 “directing a customer to a parked vehicle” or “controlling respective environmental
28 aspects” of parking spaces as recited in the Abstract. (*Id.* at Claims 1-2.) The

1 claims relate only to ensuring the occupancy indicator (a multicolor light) for a
2 parking spot is accurate and that vehicles have the required permit to park in
3 specified spots.

4 **1. The Claims of the '956 Patent**

5 The '956 patent has just two claims: independent claim 1 and dependent
6 claim 2. Independent claim 1 requires the following:

7 1. A method of managing a plurality of parking spaces,
8 comprising:

9 (a) monitoring a parking space with an imaging device of
10 an imaging unit;

11 (b) detecting, by said imaging unit, occupancy of said
12 parking space;

13 (c) assigning said parking space, in which said occupancy
14 was detected, an occupied status, wherein said occupied
15 status is indicated by illuminating a first color of a
16 multicolor indicator collocated with said imaging device,
17 said first color predefined to determine said occupied
18 status;

19 (d) obtaining, as a result of said parking space having
20 said occupied status, a single high resolution image of a
21 vehicle occupying said parking space, said high
22 resolution image obtained by said imaging device;

23 (e) storing at least part of said high resolution image on a
24 storage device;

25 (f) displaying a thumbnail image of said parking space on
26 a graphic user interface (GUI), said thumbnail image
27 digitally processed from an image electronically
28 communicated to said GUI from said imaging unit;

(g) deciding whether said occupied status is incorrect,
based on a visual review of said thumbnail image on said
GUI;

(h) correcting said occupied status, by inputting
computer-readable instructions to a computer terminal of
said GUI, if said parking space shown in said thumbnail
image is vacant and said computer terminal electronically
communicating a command to toggle said multicolor
indicator to illuminate a second color, said second color
predefined to indicate a vacant status;

- 1 (i) extracting from said high resolution image, by digital
 2 image processing, a permit identifier for said vehicle and
 3 comparing said permit identifier with at least one parking
 4 permit identification stored on said storage to determine a
 5 permit status of said parked vehicle; and
 6 (j) initiating an infringement process for said vehicle
 7 having said permit identifier that fails to coincide with at
 8 least one of said at least one parking permit
 9 identification. (*Id.* at Claim 1.)

10 Steps (a) through (h) of claim 1 cover determining whether a vehicle is present in a
 11 parking space, then having a human operator determine whether the occupancy
 12 indicator light for the parking space is accurate (and correcting it if the space is
 13 vacant). Steps (i) and (j) cover determining whether a car parked in a parking
 14 space has the required permit (and initiating an “infringement process” if not).

15 Claim 2 depends from claim 1 and narrows it by requiring the use of a
 16 self-modifying classification algorithm:

- 17 2. The method of claim 1, wherein said detecting
 18 includes providing machine-readable code of a
 19 self-modifying classification algorithm for assigning said
 20 respective statuses, the method further comprising:
 21 (e) said system executing said machine-readable code to
 22 modify said classification algorithm in response to said
 23 correcting. (*Id.* at Claim 2.)

24 Claim 2 thus covers modifying the occupied status algorithm if an error had to be
 25 corrected in step (h) of claim 1.

26 **2. The '956 Patent Specification**

27 The '956 patent specification provides further context on the nature of the
 28 claimed invention. As the specification acknowledges, “[t]he use of different
 sensor technologies [in a parking lot], such as ultrasonics or image processing is
 known.” (ECF No. 23-1 at col. 1:14-16.) Such known image processing “may
 determine occupancy of slots and provide the driver with guidance to available
 spaces either upon entry to the parking lot or by displays strategically located

1 within the lot.” (*Id.* at col. 1:16-23.)

2 The inventors identify a number of supposed shortcomings in these existing
3 sensing and guidance methods, with objectives for improving on the existing
4 methods with their invention. (*Id.* at col. 1:22-44, 2:1-26.) But nearly all of these
5 objectives relate to claims that the inventors abandoned in prosecution, not the two
6 claims that ultimately issued. For example, the inventors claim that their invention
7 is directed toward providing “customers guidance in finding their car,” “reduc[ing]
8 parking lot energy consumption” and “administer[ing] targeted advertising and
9 loyalty programs through vehicle identification.” (ECF No. 23-1 at col. 2:3-26.)
10 But nothing in the claims that actually issued pertains to these purported
11 advantages. At best, the issued claims relate to using generic computers for
12 “improv[ing] enforcement of parking lot rules and regulations” and “provid[ing] a
13 platform for real-time remote monitoring and human control of the parking
14 system.” (*Id.* at col. 2:15-26; *see also id.* at Claims 1-2.)

15 The specification makes clear that the claimed methods can be practiced on
16 general computers and hardware, such as a “desktop or server grade computer,” “an
17 energy efficient multicolor LED indicator,” “CMOS digital camera technology,”
18 and a “400 MHz ARM9 processor [], available from ARM Ltd. of Cambridge GB.”
19 (*Id.* at col. 7:49-66, 8:30-39, 8:60-63.) Similarly, the ’956 patent specification
20 explains that the claimed vehicle detection can be practiced with existing computer
21 algorithms: “Any classification routine or machine learning algorithm can be used;
22 some common algorithms in the literature include Classification and Regression
23 Trees, Support Vector Machines, and Artificial Neural Networks.” (*Id.* at col.
24 11:61-65.) Additionally, “the metrics that are computed can themselves be learned
25 from training data, using a variety of methods known in the art such as Kernel
26 Methods, Principal Components Analysis, Independent Component Analysis,
27 Feature Detection Methods, etc.” (*Id.* at col. 11:66-12:4.)
28

1 necessary to transform an abstract idea into patentable subject matter. (*Id.* at 13.)

2 In response to this § 101 rejection, Park Assist again *did not* dispute that the
3 claims were drawn to an abstract idea. (*See id.* at 21 (5/9/16 Resp. to Office
4 Action).) Instead, Park Assist tried to draft around the § 101 defects. Specifically,
5 Park Assist added the “multicolor indicator” clauses to limitations (c) and (h) and
6 argued that “[t]he claims, as amended now recite at least a processor or controller
7 for controlling the illumination of multicolor indicator [sic], and thus, *tying a*
8 *machine* to a process recitation.” (*Id.* at 17-18, 21.) Park Assist also added the
9 parking permit limitations (i) and (j). (*Id.* at 17.) In sum, Park Assist argued that
10 their amended claims satisfied § 101 because they were tied “to machines and
11 processes that can only be performed by computerized systems.” (*Id.* at 17, 21.)

12 Without further analysis, the examiner accepted these arguments in an office
13 action that also allowed only claims 19 and 20 (now claims 1 and 2) to issue “if
14 rewritten in independent form including all of the limitations of the base claim.”²
15 (*Id.* at 29, 32 (6/9/16 Office Action).) As discussed below, the examiner simply
16 misapplied the evolving law on eligible subject matter, which expressly rejects Park
17 Assist’s arguments to the examiner. The examiner should not have allowed claims
18 1 and 2 to issue, and the Court should now correct that oversight.

19 III. LEGAL STANDARD

20 A. Patent Eligibility Under § 101

21 The Supreme Court has adopted a two-step framework for determining
22 whether a claim is patent-ineligible under § 101: (1) whether the claims are directed
23 to one of the three patent-ineligible categories, *i.e.*, laws of nature, natural
24 phenomena, or an abstract idea; and (2) whether any claim elements provide an
25 “inventive concept” that transforms the claim into patent-eligible subject matter.

26
27 ² As claim 19 was already written in independent form, the examiner
28 evidently misread the claim or made an administrative error.

1 *Alice Corp. Pty. Ltd. v. CLS Bank Int’l*, 134 S. Ct. 2347, 2355 (2014); *see also*
2 *Open Parking, LLC v. ParkMe, Inc.*, No. 2:15-cv-976, 2016 U.S. Dist. LEXIS
3 85260, at *4 (W.D. Pa. Jun. 30, 2016), *aff’d*, 683 F. App’x 932 (Fed. Cir. 2017)
4 (claim to parking system for communicating space occupancy information to
5 mobile device failed both steps of *Alice*).

6 The first step in *Alice* looks at the “focus” of the claims and their “character
7 as a whole” to determine whether the claims are directed to an abstract idea. *Elec.*
8 *Power Grp., LLC v. Alstom S.A.*, 830 F.3d 1350, 1353 (Fed. Cir. 2016). Claims
9 reciting a “result or effect that itself is the abstract idea and merely invoke generic
10 processes and machinery” do not pass muster under *Alice* step one. *Apple, Inc. v.*
11 *Ameranth, Inc.*, 842 F.3d 1229, 1241 (Fed. Cir. 2016) (citation omitted).
12 Processing information is a typical example of an abstract idea. *Elec. Power Grp*
13 830 F.3d at 1353 (collecting cases). Methods of organizing human activity also are
14 typically abstract, so courts may consider if the claimed invention is analogous to
15 activities performed by humans. *Intellectual Ventures I LLC v. Symantec Corp.*,
16 838 F.3d 1307, 1317-18 (Fed. Cir. 2016) (email method claim akin to corporate
17 mailroom).

18 The second step in *Alice* considers “the elements of each claim both
19 individually and ‘as an ordered combination’ to determine whether the additional
20 elements ‘transform the nature of the claim’ into a patent-eligible application.”
21 *BSG Tech. LLC v. Buyseasons, Inc.*, 899 F.3d 1281, 1289-90 (Fed. Cir. 2018)
22 (quoting *Alice*, 134 S. Ct. at 2355). “These transformative elements must supply an
23 ‘inventive concept’ that ensures the patent amounts to ‘significantly more than a
24 patent upon the [ineligible concept] itself.’” *Id.* (quoting *Mayo Collaborative*
25 *Servs. v. Prometheus Labs., Inc.*, 566 U.S. 66, 72-73 (2012)). A claim cannot pass
26 *Alice* step two simply by tying the practice of an abstract idea to a machine or
27 computer. *DDR Holdings LLC v. Hotels.com*, 773 F.3d 1245, 1256 (Fed. Cir.
28 2014) (citing *Mayo*, 566 U.S. at 85; *Alice*, 134 S. Ct. at 2358). As the Supreme

1 Court made clear, “the mere recitation of a generic computer cannot transform a
2 patent-ineligible abstract idea into a patent-eligible invention.” *Alice*, 134 S. Ct. at
3 2358.

4 **B. Patent Eligibility Under § 101 Routinely Is Determined at**
5 **the Pleadings Stage**

6 Patent eligibility can be determined at the Rule 12(b)(6) stage “when there
7 are no factual allegations that, taken as true, prevent resolving the eligibility
8 question as a matter of law.” *Aatrix Software*, 882 F.3d at 1125. The Federal
9 Circuit has “repeatedly affirmed § 101 rejections at the motion to dismiss stage,
10 before claim construction or significant discovery has commenced.” *Cleveland*
11 *Clinic Found. v. True Health Diagnostics LLC*, 859 F.3d 1352, 1360 (Fed. Cir.
12 2017); *Aatrix Software, Inc. v. Green Shades Software, Inc.*, 890 F.3d 1354, 1358
13 (Fed. Cir. 2018) (“[S]ince *Berkheimer* and *Aatrix*, we have continued to uphold
14 decisions concluding that claims were not patent eligible at these stages.”)
15 (concurrency in denial of rehearing *en banc*). Early resolution of the § 101 issue
16 can “spare both litigants and courts years of needless litigation.” *I/P Engine, Inc. v.*
17 *AOL Inc.*, 576 F. App’x 982, 996 (Fed. Cir. 2014) (Mayer, J., concurring).

18 Claim construction is not necessary if the “basic character of the claimed
19 subject matter” can be understood without construing the claims or if the outcome
20 of a § 101 motion would be the same “under any reasonable construction.”
21 *Bancorp Servs., L.L.C. v. Sun Life Assurance Co. of Canada (U.S.)*, 687 F.3d 1266,
22 1273-74 (Fed. Cir. 2012); *CMG Fin. Servs., Inc. v. Pac. Tr. Bank, F.S.B.*, 50 F.
23 Supp. 3d 1306, 1314 (C.D. Cal. 2014), *aff’d*, 616 F. App’x 420 (Fed. Cir. 2015).
24 For example, the Supreme Court held the claims in *Bilski* patent ineligible without
25 any claim construction. *See Bilski v. Kappos*, 561 U.S. 593, 599, 612 (2010).

26 **IV. THE CLAIMS OF THE ’956 PATENT ARE INELIGIBLE**
27 **UNDER § 101**

28 The ’956 patent claims are archetypes of claims rejected by courts since
Alice. In fact, as discussed below, just last year the Federal Circuit summarily

1 affirmed the rejection of remarkably similar claims drawn to using computers to
2 monitor and transmit information about the availability of spaces in a parking lot.

3 Here, claim 1 is directed to processing information about parking space
4 occupancy and vehicle permit status, which human beings have performed for
5 decades. While claim 1 must be performed on computer systems, it does not
6 improve the functionality of those systems themselves. These computer systems
7 and generic hardware do nothing to add an inventive concept that transforms
8 claim 1 into patentable subject matter, as they are merely physical components that
9 behave exactly as expected according to their ordinary use.

10 Claim 2 adds only the modification of a classification algorithm in response
11 to user input. In other words, it claims using generic computer code to modify the
12 occupied status detection algorithm in response to user input in step (h) of claim 1.
13 As claim 2 does not teach “significantly more” than running a process on a
14 computer, it lacks the inventive concept necessary to transform its abstract subject
15 matter.

16 **A. Claim 1 of the '956 Patent Is Ineligible Under § 101**

17 **1. Claim 1 is Directed to an Abstract Idea**

18 Claim 1 fails *Alice* step one. It is directed to the abstract concept of
19 processing information, namely information derived from images of parking spaces.
20 Claim 1 implements this processing by using the human mind and generic computer
21 systems—ways of analyzing information that the Supreme Court and Federal
22 Circuit have repeatedly found abstract. And, while claim 1 is set against the
23 backdrop of general computer hardware, nothing in the claim is directed to
24 improving that hardware as such.³

25 ³ Construing the claims of the '956 patent is unnecessary to decide the issues
26 below. No reasonable construction of the claims would alter the fact that the claims
27 are directed to the processing of information, and no reasonable construction of the
28 claims would be dispositive on whether the claims contain an inventive concept.
See Bancorp Servs., 687 F.3d at 1273-74; *CMG Fin. Servs.*, 50 F. Supp. 3d at 1314;
see also Open Parking 2016 U.S. Dist. LEXIS 85260, at *13.

1 **a. Claim 1 is directed to the abstract idea of**
2 **processing information**

3 Claim 1 is directed to the abstract idea of processing information by
4 collecting, storing, analyzing, and transmitting that information. “Information as
5 such is an intangible.” *Elec. Power Grp.*, 830 F.3d at 1353. Thus, processing
6 information, including by collecting, storing, analyzing, and transmitting it, is an
7 abstract concept. *See id.*; *In re TLI Commc’ns LLC Patent Litig.*, 823 F.3d 607,
8 611-13 (Fed. Cir. 2016) (invalidating claim to method for recording and classifying
9 digital images with telephone unit); *Content Aggregation Sols. LLC v. Blu Prods.*,
10 No. 3:16-cv-00527-BEN-KSC, 2016 U.S. Dist. LEXIS 166122, at *17 (S.D. Cal.
11 Nov. 29, 2016) (invalidating claim to receiving and transmitting data on handheld
12 device). Park Assist cannot circumvent the exclusion of abstract ideas by
13 narrowing the invention to managing a parking lot, as “a variation on the abstract
14 idea does not mean it is not directed to that abstract idea.” *Advanced Auctions LLC*
15 *v. Ebay, Inc.*, No. 13-cv-1612-BEN-JLB, 2015 U.S. Dist. LEXIS 39588, at *6 (S.D.
16 Cal. Mar. 26, 2015) (invalidating claim to Internet auctions).

17 The Federal Circuit recently affirmed that an invention incredibly similar to
18 the ’956 patent is abstract and unpatentable. In *Open Parking, LLC v. ParkMe,*
19 *Inc.*, the patents at issue claimed a parking system for communicating a real time
20 representation of parking lot occupancy to a mobile device, as well as
21 communicating changes to the occupancy status of individual spaces. 2016 U.S.
22 Dist. LEXIS 85260, at *4. The district court found that “what the patents are really
23 trying to get at is the transmission of substantially real time data of whether there
24 are any open parking spaces in a given lot.” *Id.* at *21. This was “moving data
25 (open parking spots or not, and maybe where they are) from one place (the parking
26 lot) to another (the driver’s location),” which is an abstract idea. *Id.*

27 As the *Open Parking* court noted, “[i]nformation about open parking spaces
28 has long been broadcast to drivers who cannot actually see the open spaces.” *Id.* at

1 *22. The court provided two specific examples of this longstanding method of
2 organizing information: (1) parking garages with exterior displays indicating “if
3 (and in some cases how many) spots are vacant” and (2) humans designating empty
4 parking spaces, as “a drive through the streets outside PNC Park on the evening of a
5 Pirates game reveals any number of people with orange flags waving to cars to
6 indicate there are vacant spots in their lots.” *Id.* After this analysis, the district
7 court ruled that the patents were directed to ineligible subject matter and dismissed
8 the complaint with prejudice. *Id.* at *29. The Federal Circuit found this
9 determination so straightforward that it issued a summary affirmance. *Open*
10 *Parking, LLC v. ParkMe, Inc.*, 683 F. App’x 932 (Fed. Cir. 2017) (Rule 36
11 judgment).

12 *Electric Power Group* is also instructive. The patentee in that case claimed a
13 method of detecting events on an electric power grid, including receiving data from
14 a variety of data sources, detecting and analyzing events in real time from analysis
15 of specific types of data, displaying event analysis results and diagnoses, displaying
16 visualizations of data streams, and deriving an indicator of power grid vulnerability.
17 *Elec. Power Grp.*, 830 F.3d at 1351-52. The Federal Circuit found the claims
18 directed to an abstract idea, holding that “[t]he advance [the claims] purport to
19 make is a process of gathering and analyzing information of a specified content,
20 then displaying the results, and not any particular assertedly inventive technology
21 for performing those functions.” *Id.* at 1354.

22 Claim 1 of the ’956 patent shares the same flaws. Claim 1 purports to cover
23 gathering information (“detecting, by said imaging unit,” “obtaining . . . a single
24 high resolution image,” and “extracting from said high resolution image . . . a
25 permit identifier”); analyzing the information (“assigning . . . an occupied status,”
26 “deciding whether said occupied status is incorrect,” and “comparing said permit
27 identifier”); and displaying, or transmitting, the results (“illuminating a first color
28 of a multicolor indicator,” “displaying a thumbnail image,” and “initiating an

1 infringement process”). These steps clearly are directed to an abstract idea. *See*
 2 *Elec. Power Grp.*, 830 F.3d at 1354; *see also RecogniCorp LLC v. Nintendo Co.*,
 3 855 F.3d 1322, 1326 (Fed. Cir. 2017) (encoding and decoding image data is
 4 abstract). And there is no inventive technology for performing the method, as the
 5 ’956 patent specification teaches that the technology used was conventional and
 6 already known. (*See supra*, Section II.B.2; ECF No. 23-1 at col. 1:14-24, 7:49-66,
 7 8:30-39, 8:60-63, 11:61-12:4.)

8 **b. Claim 1 covers mental processing and generic**
 9 **computing**

10 The steps of claim 1 are based on processing information through either
 11 human mental processes or generic computer processing. The Federal Circuit has
 12 “treated analyzing information by steps people go through in their minds, or by
 13 mathematical algorithms, without more, as essentially mental processes within the
 14 abstract-idea category.” *Elec. Power Grp.*, 830 F.3d at 1354.

15 First, claim 1 recites information processing that is expressly done within the
 16 human mind. A thumbnail image of a parking space is displayed on a graphic user
 17 interface (GUI) and a user “decid[es] whether said occupied status is incorrect,
 18 based on a visual review of said thumbnail image on said GUI” and “correct[s] said
 19 occupied status, by inputting computer-readable instructions to a computer terminal
 20 of said GUI” This analysis of information, performed within the user’s mind,
 21 is a textbook example of ineligible subject matter. “[C]omputational methods
 22 which can be performed entirely in the human mind are the types of methods that
 23 embody the ‘basic tools of scientific and technological work’ that are free to all
 24 men and reserved exclusively to none.” *Synopsys, Inc. v. Mentor Graphics Corp.*,
 25 839 F.3d 1138, 1146 (Fed. Cir. 2016) (citation omitted). For example, in
 26 *RecogniCorp*, the Federal Circuit found that “a method whereby a user displays
 27 images on a first display, assigns image codes to the images through an interface
 28 using a mathematical formula, and then reproduces the image based on the codes”

1 was an abstract idea. 855 F.3d at 1326. The human mental processing here is
2 effectively the same.

3 Second, claim 1 recites information processing akin to mental processing, but
4 based on general computer functions (*e.g.*, “storing at least part of said high
5 resolution image on a storage device,” and “extracting from said high resolution
6 image, by digital image processing”). These concepts of data collection,
7 recognition, and storage, are “undisputedly well-known” and abstract. *Content*
8 *Extraction & Transmission LLC v. Wells Fargo Bank N.A.*, 776 F.3d 1343, 1347
9 (Fed. Cir. 2014). That a human mind cannot recognize the “processed streams of
10 bits” flowing through a computer is irrelevant to the § 101 analysis, because the
11 basic concept of this activity is abstract. *Id.* (citing *Alice*, 134 S. Ct. at 2356, 2358);
12 *see also Interval Licensing LLC v. AOL, Inc.*, 896 F.3d 1335, 1345 (Fed. Cir. 2018)
13 (collection, organization, and display of two sets of information on a generic
14 display device is abstract absent a specific improvement to the way technologies
15 operate); *Open Parking*, 2016 U.S. Dist. LEXIS 85260, at *20 (comparing
16 computerized parking system to human management of a parking lot).

17 Effectively, claim 1 does nothing more than determine whether there is a car
18 in a parking space, whether the space is properly designated as occupied, and
19 whether that car has a permit for that space, which humans have done in their
20 minds, and with pen and paper, for years. *See Open Parking*, 2016 U.S. Dist.
21 LEXIS 85260, at *22 (noting that at sporting events there are “any number of
22 people with orange flags waving to cars to indicate there are vacant spots in their
23 lots”). Such organization of routine human activity is abstract and ineligible for
24 patenting. *See FairWarning IP, LLC v. Iatric Sys., Inc.*, 839 F.3d 1089, 1095 (Fed.
25 Cir. 2016) (claim for fraud detection was abstract where it presented the “same
26 questions . . . that humans in analogous situations detecting fraud have asked for
27 decades, if not centuries”); *Intellectual Ventures I*, 838 F.3d at 1317-18 (claim to an
28 email method was abstract where it was similar to operation of a corporate

1 mailroom).

2 **c. Claim 1 does not improve the functioning of the**
 3 **technology itself**

4 Unlike cases in which valid claims were directed to a specific improvement
 5 to the way technologies operate, claim 1 does not purport to “improve the
 6 functioning of the computer itself.” *Alice*, 134 S. Ct. at 2359; *compare Finjan, Inc.*
 7 *v. Blue Coat Sys., Inc.*, 879 F.3d 1299, 1305 (Fed. Cir. 2018) (claim employed a
 8 “new kind of file that enables a computer security system to do things it could not
 9 do before”); *Enfish, LLC v. Microsoft Corp.*, 822 F.3d 1327, 1336 (Fed. Cir. 2016)
 10 (claimed self-referential table was “a specific improvement to the way computers
 11 operate”). Nothing in claim 1 instructs how to build a better imaging device, a
 12 better indicator, a better GUI, a better computer, or a better algorithm. To the
 13 contrary, the ’956 patent specification recognizes that claim 1 could be practiced
 14 using existing algorithms and off-the-shelf computers. (*See supra*, Section II.B.2;
 15 ECF No. 23-1 at col. 1:14-24, 7:49-66, 8:30-39, 8:60-63, 11:61-12:4.)

16 Claim 1 invokes these existing, generic components and algorithms to
 17 implement the abstract idea of processing and displaying information. *See Apple*,
 18 842 F.3d at 1241 (claims were abstract where they did not recite a particular way of
 19 programming or designing the claimed features, only the resulting system). The
 20 claim’s recitation of result-based limitations such as “assigning said parking
 21 space . . . an occupied status,” “displaying a thumbnail image,” and “comparing said
 22 permit identifier” are classic examples of automating information processing with a
 23 computer, which does not does not improve the functioning of the computer itself
 24 and does not confer patentability. *FairWarning*, 839 F.3d at 1095; *Content*
 25 *Aggregation*, 2016 U.S. Dist. LEXIS 166122, at *17 (“generalized steps to be
 26 performed on a computer using conventional computer activity” do not lead to
 27 patentability (quoting *Enfish*, 822 F.3d at 1338)).

28 The claim’s limitations for “illuminating a first color of a multicolor

1 indicator” and “toggl[ing] said multicolor indicator to illuminate a second color,”
2 which Park Assist added in an express attempt to circumvent § 101 restrictions, are
3 likewise abstract. (Acker Decl. Ex. 1 at 17-18, 21 (5/9/16 Resp. to Office Action).)
4 The Federal Circuit has recognized that such coded transmittal of information is an
5 abstract concept little different than Morse code or “Paul Revere’s ‘one if by land,
6 two if by sea’ signaling system.” *Recognicorp*, 855 F.3d at 1326; *see also Open*
7 *Parking*, 2016 U.S. Dist. LEXIS 85260, at *22.

8 At its heart, claim 1 is “is not [for] . . . an *improvement in computers as tools*,
9 but [for] certain independently abstract ideas that *use computers as tools*.” *Credit*
10 *Acceptance Corp. v. Westlake Servs.*, 859 F.3d 1044, 1055 (Fed. Cir. 2017)
11 (emphasis added) (citation omitted). That is not patentable subject matter.

12 2. Claim 1 Recites No Inventive Concept

13 Claim 1 fails *Alice* step two. Reciting the use and arrangement of generic
14 computer components lacks the inventive concept necessary to make the claim
15 “significantly more than a patent upon the ineligible concept itself.” *Credit*
16 *Acceptance Corp.*, 859 F.3d at 1054 (citation and brackets omitted). As a matter of
17 Supreme Court and Federal Circuit law, and contrary to Park Assist’s arguments
18 during prosecution, tying the claimed method to computerized systems does not
19 transform the claim into a patent-eligible application of the abstract idea.

20 a. Claim 1 requires nothing more than a generic 21 implementation of an abstract idea

22 The Supreme Court has twice instructed that “simply implementing a
23 mathematical principle on a physical machine, namely a computer, [i]s not a
24 patentable application of that principle.” *Alice*, 134 S. Ct. 2357-58 (quoting *Mayo*,
25 566 U.S. at 84). Since those decisions, the Federal Circuit has consistently rejected
26 claims that recite processing information on generic components:
27
28

1 The use and arrangement of conventional and generic
2 computer components recited in the claims—such as a
3 database, user terminal, and server—do not transform the
4 claim, as a whole, into “significantly more” than a claim
5 to the abstract idea itself. We have repeatedly held that
6 such invocations of computers and networks that are not
7 even arguably inventive are insufficient to pass the test of
8 an inventive concept in the application of an abstract
9 idea.

10 *Credit Acceptance Corp.*, 859 F.3d at 1056 (internal citations and quotations
11 omitted); *TDE Petroleum Data Sols., Inc. v. AKM Enter., Inc.*, 657 F. App’x 991,
12 993 (Fed. Cir. 2016) (“[patentee] does not and cannot argue that storing state
13 values, receiving sensor data, validating sensor data, or determining a state based on
14 sensor data is individually inventive.”).

15 Here it is clear, both from the claim and from the specification, that claim 1
16 just requires already-available electronics, with their already-available basic
17 functions, to use as tools in executing the claimed processes. *See SAP Am., Inc. v.*
18 *InvestPic, LLC*, 898 F.3d 1161, 1169-70 (Fed. Cir. 2018). The specification’s
19 recitation of processors, RAM, and other commonplace electronics does not amount
20 to anything more than “generic computer implementation.” *P&G Co. v.*
21 *Quantificare, Inc.*, 288 F. Supp. 3d 1002, 1027 (N.D. Cal. 2017); (Section II.B.2;
22 ECF No. 23-1 at col. 1:14-24, 7:49-66, 8:26-59, 8:60-63, 11:61-12:4). The
23 software recited in the specification is similarly generic: “[a]ny classification
24 routine or machine learning algorithm can be used” and the permit identifier is
25 extracted with “digital image processing.” (ECF No. 23-1 at col. 11:61-62, Claim
26 1.) The specification concedes that using such technologies to determine
27 occupancy of slots and provide guidance to available spaces was already known in
28 the art. (*Id.* at col. 1:8-22.)

 Moreover, claim 1 itself is far more general than even the patent
specification. Limitations and teachings that appear in the specification, but not in

1 the claim, cannot provide inventive steps for a § 101 analysis. *Two-Way Media Ltd*
 2 *v. Comcast Cable Commc'ns, LLC*, 874 F.3d 1329, 1339 (Fed. Cir. 2017) (“While
 3 the specification may describe a purported innovative ‘scalable architecture,’
 4 claim 1 of the ’187 patent does not.”); *Return Mail, Inc. v. USPS*, 868 F.3d 1350,
 5 1369 (Fed. Cir. 2017) (limitations in specification that “do not appear in the subject
 6 claims” did not save claims), *cert. granted on other grounds*, 2018 U.S. LEXIS
 7 6261 (Oct. 26, 2018); *RecogniCorp*, 855 F.3d at 1327 (“[A]n inventive concept
 8 must be evident in the claims.”). Thus, specific teachings in the specification about,
 9 for example, the appearance of a GUI interface or the benefits of claims that were
 10 abandoned in prosecution cannot save the abstract concept of claim 1.

11 Fundamentally, claim 1’s use of computer technology is merely for “physical
 12 components [that] behave exactly as expected according to their ordinary use,”
 13 which does not transform an abstract concept into patentable subject matter. *TLI*
 14 *Commc'ns*, 823 F.3d 615; *Open Parking*, 2016 U.S. Dist. LEXIS 85260, at *27
 15 (incorporating computer technology “does not ‘override[] the routine and
 16 conventional sequence of events’ pertaining to finding a parking space”).

17 **b. Park Assist’s arguments during prosecution**
 18 **were wrong as a matter of law**

19 During prosecution of the ’956 patent, Park Assist argued that its claims were
 20 patentable under § 101 because (1) they recite “images captured by an imaging
 21 device,” (2) they recite “at least a processor or controller for controlling the
 22 illumination of multicolor indicator [sic], and thus, tying a machine to a process
 23 recitation,” and (3) they are tied “to machines and processes that can only be
 24 performed by computerized systems.” (Acker Decl. Ex. 1 at 7 (8/3/2015 Resp. to
 25 Office Action); *id.* at 21 (5/9/2016 Resp. to Office Action).) None of these
 26 arguments pass muster under § 101.

27 First, merely reciting “images captured by an imaging device” does not
 28 satisfy § 101. *See Content Extraction*, 776 F.3d at 1347 (claims reciting a

1 “scanner” were invalid under § 101); *TLI Commc’ns*, 823 F.3d at 613 (“[T]he
2 claims’ recitation of . . . an ‘image analysis unit,’ and a ‘control unit’ fail to add an
3 inventive concept.”); *P&G Co.*, 288 F. Supp. 3d at 1026-27 (acquiring and
4 analyzing a digital image “are routine computer functions”).

5 Second, reciting a processor or controller to “t[ie] a machine to a process
6 recitation” does not satisfy § 101. *See FairWarning*, 839 F.3d at 1096 (the use of
7 elements like a microprocessor or user interface does not alone transform an
8 otherwise abstract concept); *Cybersource Corp. v. Retail Decisions, Inc.*, 654 F.3d
9 1366, 1375 (Fed. Cir. 2011) (“[T]he basic character of a process claim drawn to an
10 abstract idea is not changed by claiming only its performance by computers”). In
11 fact, the Supreme Court in *Alice* expressly rejected the strategy employed by Park
12 Assist during prosecution. The Court acknowledged that “a computer is a tangible
13 system (in § 101 terms, a ‘machine’),” but “if that were the end of the § 101
14 inquiry, an applicant could claim any principle of the physical or social sciences by
15 reciting a computer system configured to implement the relevant concept.” *Alice*,
16 134 S. Ct. at 2359. Permitting patent eligibility “to depend simply on the
17 draftsman’s art” would “eviscerat[e] the rule that . . . abstract ideas are not
18 patentable.” *Id.* (citations omitted).

19 Third, tying the claims “to machines and processes that can only be
20 performed by computerized systems” does not satisfy § 101, nor does claim 1
21 actually do so. In *Content Extraction*, the plaintiff argued that its claims passed
22 § 101 because they required a scanner, and “human minds are unable to process and
23 recognize the stream of bits output by a scanner.” 776 F.3d at 1347. The Federal
24 Circuit rejected this argument, pointing out that “the claims in *Alice* also required a
25 computer that processed streams of bits, but nonetheless were found to be abstract.”
26 *Id.*; *see also Open Parking*, 2016 U.S. Dist. LEXIS 85260, at *26 (rejecting § 101
27 argument that claim could only be performed with computer). Moreover, the
28 inquiry is not whether a human mind has the same technological operation as the

1 recited machine (which would never be the case), but whether the fundamental
2 process is akin to mental or algorithmic activity. *See, e.g., Return Mail*, 868 F.3d at
3 1368 (invalidating claim to computerized mail encoding and decoding that merely
4 recited processes performed in the human mind, “with the benefit of generic
5 computer technology”). All the processes in claim 1—determining whether a
6 vehicle is in a parking space, indicating space occupancy, reading a permit on a
7 vehicle, comparing the permit to a list of approved permits, and taking action if the
8 permit is not approved—“can, and have been, performed in the human mind,”
9 individually and in combination. *Id.*

10 Finally, to the extent that Park Assist’s prosecution arguments were an
11 attempt to invoke the “machine-or-transformation” test, that would still not save
12 claim 1. The Federal Circuit articulated the machine-or-transformation test in
13 *Bilski*: a claimed process is patent eligible if it is tied to a particular machine or
14 transforms an article into a different state or thing. *In re Bilski*, 545 F.3d 943, 954
15 (Fed. Cir. 2008), *abrogated in pertinent part*, 561 U.S. at 604. But the Supreme
16 Court made clear in *Bilski*, *Mayo*, and *Alice* that satisfying the machine-or-
17 transformation test no longer saves claims from § 101 rejections. As the Federal
18 Circuit explained, while the machine-or-transformation test remains an important
19 clue in the patentability inquiry,

20 in *Mayo*, the Supreme Court emphasized that satisfying
21 the machine-or-transformation test, *by itself, is not*
22 *sufficient to render a claim patent-eligible* as not all
23 transformations or machine implementations infuse an
24 otherwise ineligible claim with an “inventive
25 concept.” . . . And after *Alice*, there can remain no doubt:
26 recitation of generic computer limitations *does not make*
an otherwise ineligible claim patent-eligible. The bare
fact that a computer exists in the physical rather than
purely conceptual realm “is beside the point.”

27 *DDR Holdings*, 773 F.3d at 1256 (emphasis added) (quoting *Mayo*, 566 U.S. at 85;
28

1 *Alice*, 134 S. Ct. at 2358). For example, “[m]erely stating that the methods at issue
2 are performed on already existing vehicle equipment, without more, does not save
3 the disputed claims from abstraction.” *Vehicle Intelligence & Safety LLC v.*
4 *Mercedes-Benz USA*, 635 F. App’x 914, 919 (Fed. Cir. 2015); *see also Open*
5 *Parking*, 2016 U.S. Dist. LEXIS 85260, at *26-27 (“Just because the abstract ideas
6 in these patents are to be carried out on some mobile device (even a brand spanking
7 new one in 1999), does not save them from having to pass through the *Alice*
8 sieve.”).

9 **B. Dependent Claim 2 of the ’956 Patent Is Ineligible**
10 **Under § 101**

11 **1. Claim 2 Is Directed to an Abstract Idea**

12 Claim 2 depends from claim 1 and thus shares the same defects under § 101.
13 Claim 2 narrows claim 1 by requiring the system to execute machine-readable code
14 to modify a classification algorithm in response to the occupancy status correction
15 recited in claim 1. (ECF No. 23-1, Claim 2) Far from saving the claims, this
16 additional limitation confirms that both claims 1 and 2 are directed to the abstract
17 idea of processing information.

18 Algorithms are abstract concepts. In *Alice*, the Supreme Court noted
19 long-standing precedent under which an algorithm carried out on a general purpose
20 computer “was an abstract idea.” 134 S. Ct. at 2357. The Federal Circuit has
21 repeatedly applied this rule to find algorithms are abstract ideas. *See Elec. Power*
22 *Grp.*, 830 F.3d at 1353 (analyzing information by mathematical algorithms, without
23 more, is an abstract idea); *Digitech Image Techs., LLC v. Elecs. for Imaging, Inc.*,
24 758 F.3d 1344, 1351 (Fed. Cir. 2014) (“a process that employs mathematical
25 algorithms to manipulate existing information to generate additional information” is
26 an abstract idea); *RecogniCorp*, 855 F.3d at 1327 (a “process that started with data,
27 added an algorithm, and ended with a new form of data was directed to an abstract
28 idea”).

1 Here, claim 2 does not purport to improve the algorithm or the computer that
2 runs it. The specification teaches a generic “classification routine or machine
3 learning algorithm” that runs on generic computer equipment. (ECF No. 23-1 at
4 col. 11:61-62.) A claim that recites the use of an algorithmic engine that is “not
5 claimed, identified, or explained . . . is the height of abstraction.” *Clarilogic, Inc. v.*
6 *FormFree Holdings Corp.*, 681 F. App’x 950, 954 (Fed. Cir. 2017).

7 2. Claim 2 Recites No Inventive Concept

8 Claim 2 lacks anything “significantly more” than the abstract concept of
9 training a generally-known algorithm. The specification confirms that such
10 computer processing is not an independently inventive concept. (ECF No. 23-1 at
11 col. 5:67-6:3 (“Preferably, the image classification system uses a self-modifying
12 classification algorithm, i.e., an algorithm that can be trained to improve the
13 classification accuracy thereof.”).) As the specification makes clear, “[a]ny
14 classification routine or machine learning algorithm can be used; some common
15 algorithms in the literature include Classification and Regression Trees, Support
16 Vector Machines, and Artificial Neural Networks.” (*Id.* at col. 11:61-64.) Nothing
17 in either the claim or the specification teaches how to code the classification
18 algorithm, or claims that the ’956 patent is improving the algorithm itself.
19 Moreover, claiming particular methods of computing information “simply
20 provide[s] further narrowing of what are still mathematical operations” and does
21 not provide an inventive step. *SAP Am.*, 898 F.3d at 1169 (rejecting claim to using
22 an algorithm to analyze data).

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V. CONCLUSION

The claims of the '956 patent fall squarely within the exceptions to patentable subject matter articulated in *Mayo/Alice* and their progeny. The Court should find the claims ineligible for patenting and dismiss Park Assist's Amended Complaint with prejudice.

Respectfully submitted,

Dated: November 8, 2018

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CERTIFICATE OF SERVICE

The undersigned hereby certified that on November 8, 2018 a true and correct copy of the foregoing was transmitted electronically to the Electronic Filing System of the United States District Court for the Southern District of California which, under Local Civil Rule 5.4(b)-(d), is believed to have sent notice of such filing, constituting service of the filed document, on all Filing Users, all of whom are believed to have consented to electronic service.

Executed on November 8, 2018, at San Diego, California.

/s/ Eric M. Acker
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