

**PATENT LICENSE SUMMARY PROSPECTUS**

**Patented Technology For Customizing Wireless Communications in Venues  
Smart Zone Technology**

**Opportunity** We are entertaining offers for license of a patent portfolio developed by Dead Zone, LLC, including **US Patent 9,681,358**, **US Patent 9.913,200**, and **US Patent 10,341,937** entitled “Dead Zone For Wireless Communication Device”, **pending published US application 20170374603** entitled “Safety Disarm For Firearm”, **pending published US application 20180302839** entitled “Dead Zone For Wireless Device”, and **pending US application 16/430,978** entitled “Dead Zone In Small Cell Application”. These patents enable voice and/or data communication from the cellular network and access point to be uniquely tailored to the particular desires and taste requirements of a venue.

The patented technology has wide application in drone control; in store shopping control; gun control – hospitals, schools, parks, and public venues; communication control – wireless providers - restaurants, stores, hospitals, schools, movie theaters, theaters, art museum, concert venue, parks and public venues; communication control – wireless providers; augmented reality application control. The patented technology prevents a mobile terminal from taking a photo, audio, video, making a voice call, texting, emailing, or internet browsing within the venue. It prevents a drone intrusion into the venue. It prevents killing of innocent people in a venue by automatic and other firearms.

These patents claim priority back to October 2, 2008, giving them an early priority date for the technology that is covered.

**Problem Addressed** Each year, drone intrusions are on the rise. Recently, two flights diverted from Dubai due to suspected drones; a Pa. man was accused of using drone to drop explosives on ex-girlfriend’s property; Saudi oil production was cut by 50% after drones attack crude facilities; a drone was flown over Michigan Stadium during game; drones nearly hitting planes - 117 Times in Ohio in Five Years; drone flying close to Cape Coral home invades a family's sense of privacy.

Each year, mortar and brick stores like Macy’s, are losing in-store sales from customers who experience the showroom of their products but then place their sales orders with online stores offering steep discounts since they are without the store overhead.

Each year, there are killings of innocent people by uncontrolled firearms like the Orlando nightclub shooting the San Bernadino shooting, the Sandy

## **Smart Zone Patent Portfolio October 13, 2019**

Hook elementary school shooting, and the Aurora, Colorado movie theater shooting.

Each year, restaurants, stores, hospitals, schools, movie theaters, theaters, art museum, concert venue, parks and public venues not only have the experience of their patrons ruined by inappropriate use of wireless communication devices by other patrons but also lose control of their ability to shape the experience they desire for their venue because of patrons access to wireless services that fall outside the control of the venue.

Each year, augmented reality applications are causing people to trespass onto private or public property because they place Pokémon or some other virtual object “on” the private or public property. This also leads to establishment worries about whether people on public property are there for the right reasons or merely there to play an augmented reality game or worse, to “case” the location?

These and other intrusions cause hundreds of billions of dollars in losses of life and property every year. These losses, in most every sector, from fashion, to chemicals, consumer goods, personal care, food, toys, auto and aircraft parts, electronics, and pharmaceuticals damage sales and revenues, brand equity, consumer confidence, US industry, the US economy, jobs, and public health and safety. And the problem is only growing.

With increasing focus on wireless communication intrusions across all economic sectors, we are entering a time of unprecedented opportunity for service providers who are able to provide more reliable technological solutions to uniquely tailoring wireless communications permissible in a venue to the particular desires and taste requirements of the venue. These are precisely the areas that are addressed by the Smart Zone patents.

## Smart Zone Patent Portfolio October 13, 2019

### Background

Smart Zone filed a US provisional patent application directed to its core technology on October 2, 2008, followed by their first US utility application filing on September 30, 2009. The Smart Zone patents claim priority back to this early provisional filing.

Since 2009, Smart Zone has been granted three patents directed to its core technology, with an allowance on a fourth patent and a fifth and sixth application in examination. Additionally, Smart Zone is providing consulting services around the patented technology. Smart Zone is now looking to license its patent portfolio to companies interested in uniquely tailoring wireless communications permissible in a venue to the particular desires and taste requirements of the venue.

### Summary

The problem addressed by the Smart Zone portfolio is providing wireless communication restrictions to a wireless device in a manner that can be customized for the wireless device attempting to access wireless content.

The Smart Zone portfolio overcomes this problem with a system and method for uniquely tailoring wireless communications permissible in a venue to the particular desires and taste requirements of the venue.

The Smart Zone portfolio installs a restrictions database on either or both the network and the wireless device giving the wireless device the benefits of a restrictions database on the wireless device, of a restrictions database on the network, or both.

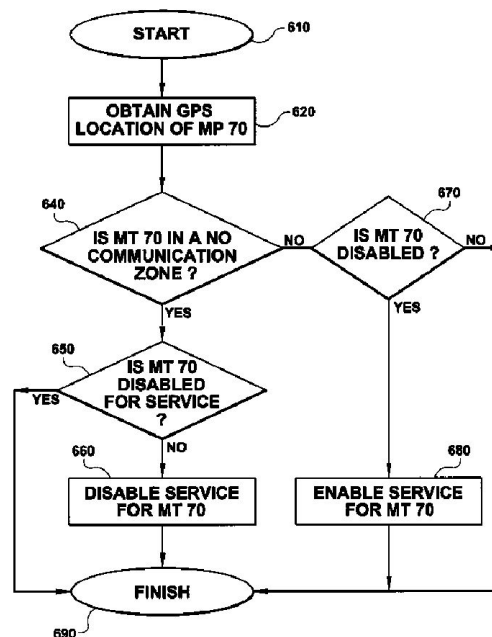
Queries by the network, the wireless device, or both of conditions of the device and matching that condition against the restricted conditions in the restriction database determine whether the wireless communication to the wireless device is to be restricted, how the wireless communication is to be restricted, and/or how the operation of the wireless device may be modified based on the presence of the wireless device in the restricted space.

The restriction may disable one or more functions of the wireless device. As an **illustrative application to drones**, the restriction may prohibit a drone from entering a restricted space or taking pictures of people in the privacy of their properties. As an **illustrative application to a restaurant, art gallery, performance hall, or other public venue**, the establishment may prevent a mobile terminal from taking a photo, audio, video, making a voice call, texting, emailing, or internet browsing within the establishment. As an **illustrative application to brick and mortar shopping**, your store may prevent a customer

## Smart Zone Patent Portfolio October 13, 2019

from using his or her mobile terminal from placing sales orders with online stores offering steep discounts from your store while experiencing your showroom of products. As an **illustrative application to firearms control**, a firearm may be prevented from use based on the target the firearm is aiming at. As an **illustrative application to augmented reality control**, your establishment may prevent a mobile terminal from running an augmented reality application within your establishment.

Below is an overview of the system of the Smart Zone Patents.



### A) U.S. 9,681,358; U.S. Patent 9.913,200; and U.S. Patent 10,341,937 - Restrictions database on both the network and the wireless device

The '358 Patent, the '200 Patent, and the '937 Patent are directed to the problem of restricting wireless communication to a wireless device when the wireless device is in a location in which some wireless communication is not permitted.

The problem addressed by the '358 Patent, the '200 Patent, and the '937 Patent is providing wireless communication restrictions to a wireless device in a manner that can be customized for the wireless device attempting to access wireless content while avoiding the need for a one set of restrictions database "shoe" applying to all wireless devices, as was the conventional way of doing this before the '358 Patent.

## Smart Zone Patent Portfolio October 13, 2019

The patented solution of the '358 Patent, the '200 Patent, and the '937 Patent installs a restrictions database on both the network and the wireless device giving the wireless device both the benefits of a restrictions database on the wireless device and the benefits of a restrictions database on the network

### **A) U.S. Patent 10,341,937 - ?Zy(xM(b`'Ml†M(bnl'n\_M, bzjZyy'XZfVZ with a Dead Zone Service in the network and wireless device combination**

The '937 Patent entitled "Dead Zone for Wireless Communication Device" issued on July 2, 2019 with a priority date going all the way back to October 2, 2008.

The '937 Patent is directed to the problem of restricting wireless communication to a wireless device when the wireless device is in a location in which some wireless communication is not permitted.

The '937 Patent addresses this problem by providing wireless communication restrictions to a wireless device in a manner that can be customized for the wireless device attempting to access wireless content while avoiding the need for a one set of restrictions database "shoe" applying to all wireless devices, as was the conventional way of doing this before the '937 Patent.

The patented solution of the '937 Patent installs a restrictions database on both the network and the wireless device giving the wireless device both the benefits of a restrictions database on the wireless device and the benefits of a restrictions database on the network

The '937 Patent restricts any action of a wireless device and provides a dead zone service in the network for making the network queries.

### **B) U.S. Patent 9,913,200 - ?Zy(xM(b`'Ml†\_l|V(bnl'n\_M, bzjZyy'XZfVZ with a Dead Zone Service in the network and wireless device combination**

The '200 Patent entitled "Dead Zone for Wireless Communication Device" issued on March 6, 2018 with a priority date going all the way back to October 2, 2008.

The '200 Patent is directed to the problem of restricting wireless communication to a wireless device when the wireless device is in a location in which some wireless communication is not permitted.

The '200 Patent addresses this problem by providing wireless communication restrictions to a wireless device in a manner that can be customized for the wireless device attempting to access wireless content while avoiding the need for a one set of restrictions database "shoe" applying to all wireless devices, as was the conventional way of doing this before the '200 Patent.

The patented solution of the '200 Patent installs a restrictions database on both the network and the wireless device giving the wireless device both the benefits

## Smart Zone Patent Portfolio October 13, 2019

of a restrictions database on the wireless device and the benefits of a restrictions database on the network

The '200 Patent restricts any function of a wireless device and provides a dead zone service in the network for making the network queries.

### **C) U.S. 9,681,358 - ?Zy(x)(b) ` {aZ`Vnk k | I bM(l)l \_|I V(l)l yn\_M, bZjZyyXZfBZ with Mobile Switching Center in the network and wireless device combination**

The '358 Patent entitled "Dead Zone for Wireless Communication Device" issued on June 13, 2017 with a priority date going all the way back to October 2, 2008.

The '358 Patent is directed to the problem of restricting wireless communication to a wireless device when the wireless device is in a location in which some wireless communication is not permitted.

The '358 Patent addresses this problem by providing wireless communication restrictions to a wireless device in a manner that can be customized for the wireless device attempting to access wireless content while avoiding the need for a one set of restrictions database "shoe" applying to all wireless devices, as was the conventional way of doing this before the '358 Patent.

The patented solution of the '358 Patent installs a restrictions database on both the network and the wireless device giving the wireless device both the benefits of a restrictions database on the wireless device and the benefits of a restrictions database on the network.

Queries by the network, the wireless device, or both of conditions of the device and matching that condition against the restricted conditions in the restriction database determine whether the wireless communication to the wireless device is to be restricted, how the wireless communication is to be restricted, and/or how the operation of the wireless device may be modified based on the presence of the wireless device in the restricted space.

The '358 Patent restricts the communication functions of a wireless device and provides a Mobile Switching Center in the network for making the network queries.

### **D) Published US application 20170374603 – ?Zy(x)(b) ` M(l)l `n\_MlbZMk on impermissible target recognition**

The '603 Apn entitled "Safety Disarm For Firearm" was allowed on August 2, 2019. It was filed July 28, 2017 based on a provisional filing dated July 29, 2016 and is a continuation-in-art application of U.S. Patent 10,341,937 which claims a priority date going all the way back to October 2, 2008.

## Smart Zone Patent Portfolio October 13, 2019

The '603 Apn is directed to the problem of restricting use of a firearm when the firearm is being used in a way in which the firearm is not permitted.

The '603 Apn addresses this problem by imposing use restrictions on a firearm in a manner that allows the firearm to be used in the way it was intended to be used while avoiding use to target innocent people or in a way in which it is unsafe.

The patented solution of the '603 Apn associates a database of restrictions with the firearm that includes data on a permitted target for enabling the firing of the firearm. If the firearm is aimed at a target that is not permitted, the firearm is disabled.

The database of restrictions is stored in a memory controlled by a processor that may be located on the firearm, a mobile device, or in the cloud.

The '603 Apn may apply further restrictions based on conditions like tampering with the smart controller associated with the firearm, biometric analysis, and over-ride of restrictions by military and law enforcement officials.

Below is an overview of the system of the '603 Apn.

310 Detected Shape	320 Prohibited Shape for firing Firearm	330 Arm/Disarm Firearm
Human	Human	Disarm
Round target	Human	Arm

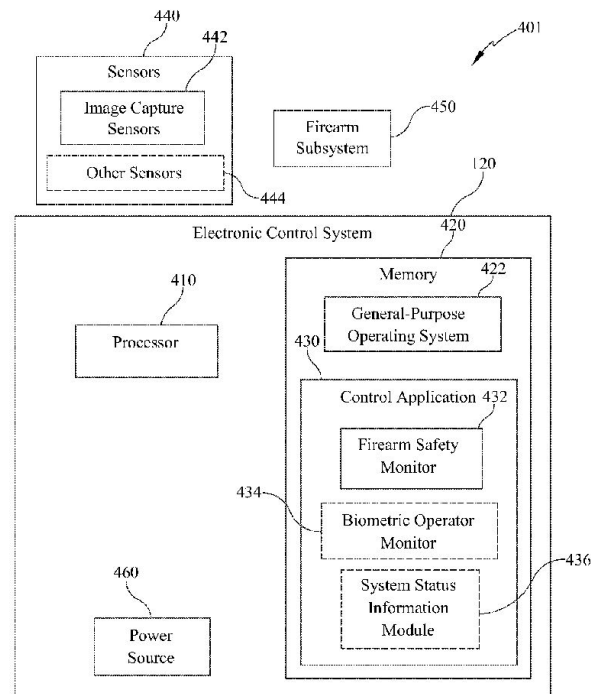


FIG. 4

**C) Published US application 20180302839 - Take over control of functions of a wireless device when entering a location and a local restriction applies.**

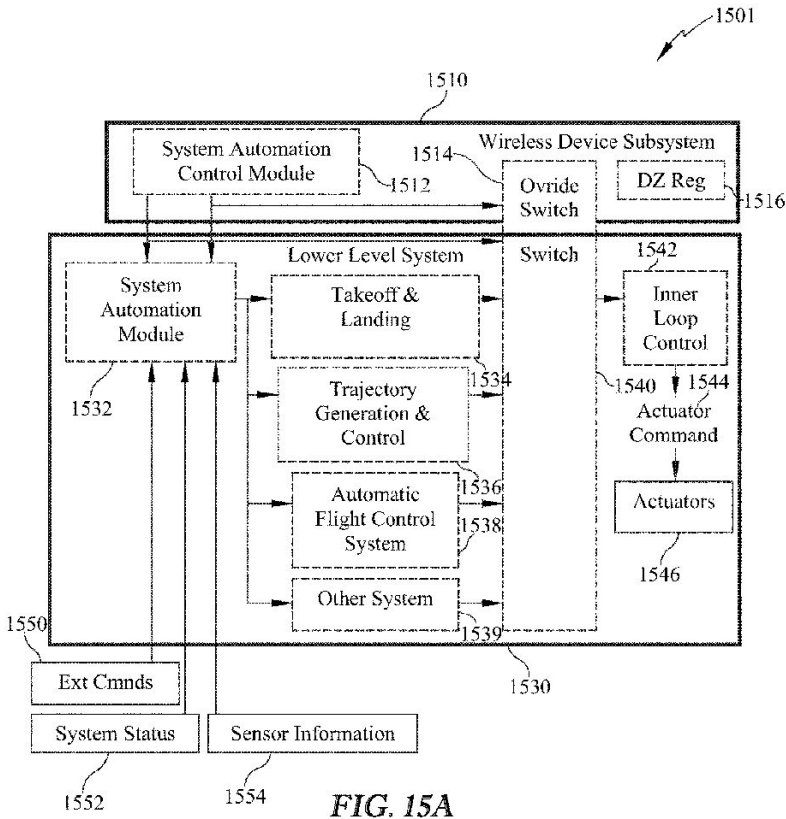
The '839 Apn entitled "Dead Zone For Wireless Device" is a pending application filed May 22, 2018 based on a provisional filing dated September 24, 2017 and is a continuation-in-part application of U.S. Patent 10,341,937 which claims a priority date going all the way back to October 2, 2008.

The '893 Apn is directed to the problem of restricting wireless communication to a wireless device when the wireless device is in a location in which some wireless communication is not permitted.

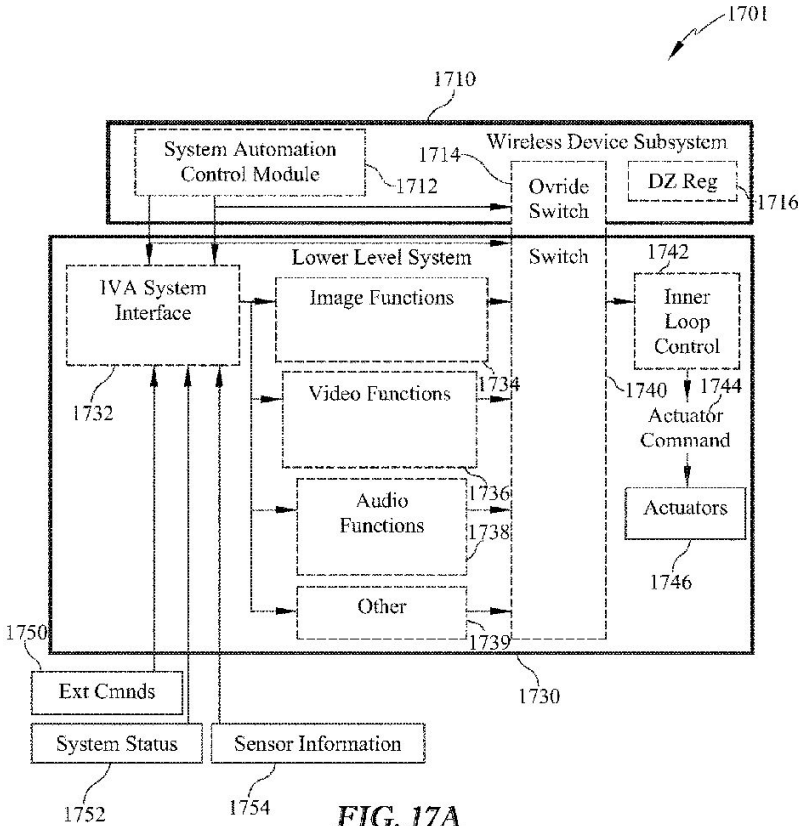
The '893 Apn addresses this problem by imposing use restrictions on a wireless device in a manner that shapes the action, function, and/or permitted communications to/from the wireless device.

As an **illustrative application to drones shown in the drawing before**, the restriction may take over flight control of a drone or disable taking pictures of people in the privacy of their properties.

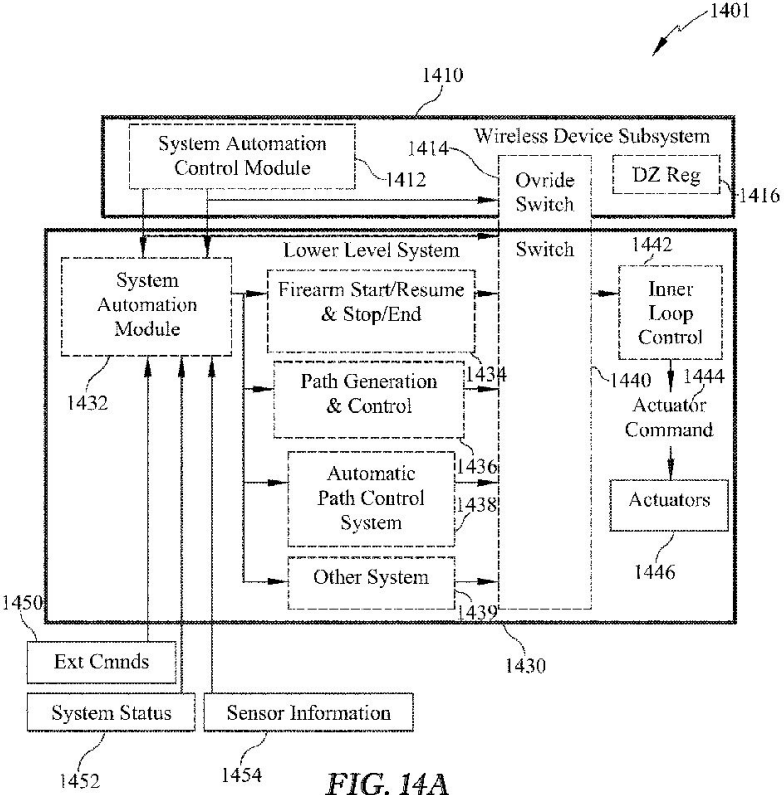




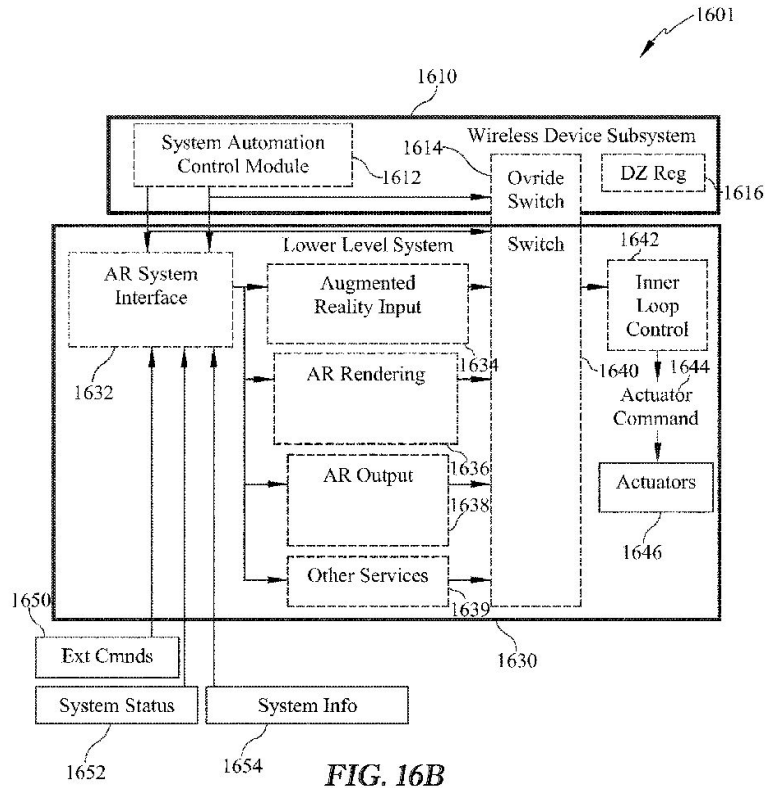
As an **illustrative application to wireless communication control, shown in the drawing below**, the restriction may take over control of the wireless device and enable/disable or modify functions of the wireless device based on the restrictions.



As an **illustrative application to firearms control**, shown in the drawing below, the restriction may take over control of the firearm and enable/disable the firearm based on the restrictions.



As an illustrative application to augmented reality control, shown in the drawing below, the restriction may take over control of the wireless device and enable/disable an augmented reality application based on the restrictions.



The '893 Apn takes over control of these and other functions of a wireless device when entering a location and a local restriction applies.

**C) Pending US application 16/430,978**

The '978 Apn entitled "Dead Zone in Small Cell Application" is a pending application filed June 4, 2019 based on a provisional filing dated June 4, 2018 and is a continuation-in-part application of U.S. Patent 10,341,937 which claims a priority date going all the way back to October 2, 2008.

The '893 Apn is directed to the problem of restricting wireless communication to a wireless device when the wireless device is in a location in which some wireless communication is not permitted.

The '893 Apn addresses this problem by imposing use restrictions on a wireless device in a manner that shapes the action, function, and/or permitted communications to/from the wireless device.

The following drawing illustrates the wide range of restrictions that may be applied to shape the communications permitted by a mobile terminal in a location. **The drawing shows illustrative application to a restaurant, art gallery,**

## Smart Zone Patent Portfolio October 13, 2019

performance hall, or other public venue shown in the drawing below, the establishment may prevent a mobile terminal from taking a photo, audio, video, making a voice call, texting, emailing, or internet browsing within the establishment. It also shows **illustrative application to brick and mortar shopping**, where your store may prevent a customer from using his or her mobile terminal from placing sales orders with online stores offering steep discounts from your store while experiencing your showroom of products.

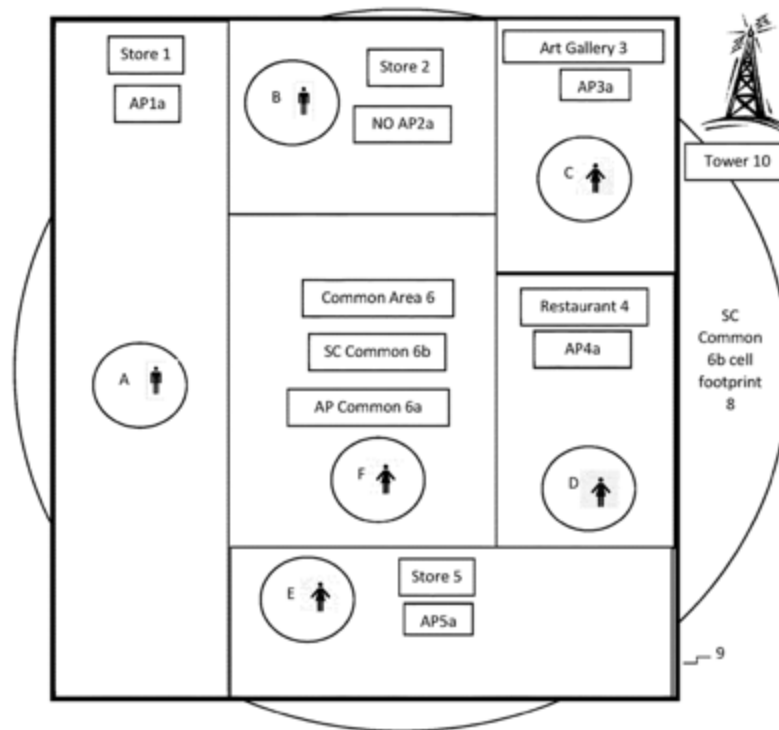


FIG. 25A

### Product and Services Impacted

Any company or service interested in (1) preventing a mobile terminal from taking a photo, audio, video, making a voice call, texting, emailing, or internet browsing within the venue, (2) preventing a drone intrusion into the venue, or (3) preventing killing of innocent people in a venue by automatic and other firearm

## Smart Zone Patent Portfolio October 13, 2019

should investigate the applicability of the portfolio and could benefit from licensing the Smart Zone Patents.

### Financial

Smart Zone is willing to entertain offers to license the entire portfolio or individual patents in the portfolio on either a non-exclusive or an exclusive basis. If the patents are sold, they must all be sold to the same entity.

### Communication of Potential Interest

Dead Zone, LLC is seeking interested parties who could benefit from the license of the Smart Zone portfolio. James Tiernan; Chief Technology Collaborator at Dead Zone, LLC, is managing the offering.

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