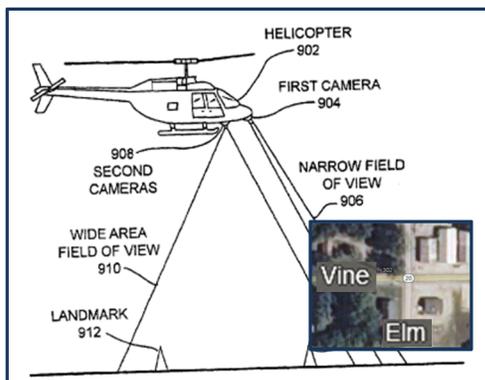


Video with Map Overlay Patent Portfolio

US Patent Numbers 7,456,847 and 8,334,879 with Related IP Assets
This Portfolio is Offered for Sale

Command and Control: Information Enhancements for Mission Visual Displays

Helicopter, fixed wing, watercraft, and other vehicle pilots rely on visual cues to complete their missions. The precise event location of law enforcement or search and rescue emergencies is impossible to predict; therefore, mission simulation to familiarize pilots with visual location cues isn't possible. Modern GIS systems storing mission data are helpful; but, overlaying location indicia using the patented technology offers a superior solution.



Pilots commonly rely on telephoto video imagery to direct ground personnel but these systems suffer "tunnel vision." As the field-of-view narrows, the display may not contain enough recognizable landmarks to relate the position of an event taking place miles away. The issued patents, titled **Video with Map Overlay**, teach and claim fusion of telescopic video views with wide field-of-view imagery to assure accurate geographical interpretation. The enhanced video stream may include street names, landmark names, and other overlay information.

Enabling Technology: For Military, Law Enforcement, and Rescue Mission Success

With no room for guesswork, advanced electronic imaging equipment is essential to military, law enforcement, search, rescue, lifeline, fire fighting, and even certain commercial activities. These remarkable capabilities rely on a variety of imaging technologies including telephoto lenses, electronic image magnification, light amplification for night vision, thermal imaging, and other sensor systems. In many cases it becomes very difficult for a viewer to recognize exactly where the camera is pointing, especially when the field of view is limited to a narrow and distant location. Inventor Russell Krajec teaches a novel technology to place easily readable location data onto the streaming video image as an overlay.



Ground personnel and others require geographical references to an event location. Descriptions including nearby streets or intersections, or perhaps well known structures, are typically the most helpful (e.g. – the vehicle "in front of the first building at the Northeast corner of Vine and Elm"). Position sensing technology, available computing capability, and GIS databases have made the days of aerial "guesstimates" unnecessary. Precise field-of-view locations can be made available at all times using any of the embodiments covered in these patents. Two cameras may be deployed – one capturing recognizable landmarks for image recognition and another coupled to a telescopic lens. Alternatively, a single high resolution camera equipped with adequate optics may serve both functions. These and other approaches enable fusion of wide and narrow field-of-view video information along with vehicle position sensor data to instantly reference pilots and ground personnel to very accurate emergency event locations.

Available Patents: A Successful Bidder Will Protect Distinct Technical Advantages

Inventor Krajec claimed broad coverage of the modes of operation possible for generating a practical video information overlay. The successful bidder will acquire USPN 8,334,879 (issued December 18, 2012) and its continuation, USPN 7,456,847 (November 25, 2008), plus another continuing application along with access to the inventor's know-how.

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