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Reno, NV 89521-7430
June 20, 2016

Mr. Darryl W. Davis, President
Boeing Phantom Works
P. O. Box 2515
Seal Beach, California 90740

Dear Mr. Davis,

I have several U.S. patents that your company might be interested in.

1. U.S. Patent 8,373,591 **System For Sensing Aircraft and Other Objects** issued 2/12/2013 to Margolin.

(That's me.)

Abstract

A system for sensing aircraft and other objects uses bistatic radar with spread-spectrum signals transmitted from remotely located sources such as aircraft flying at very high altitudes or from a satellite constellation. A bistatic spread spectrum radar system using a satellite constellation can be integrated with a communications system and/or with a system using long baseline radar interferometry to validate the digital terrain elevation database. The reliability and safety of TCAS and ADS-B are improved by using the signals transmitted from a TCAS or ADS-B unit as a radar transmitter with a receiver used to receive reflections. Aircraft and other objects using spread spectrum radar are detected by using two separate receiving systems. Cross-Correlation between the outputs of the two receiving systems reveals whether a noise signal is produced by the receiving systems themselves or is coming from the outside.

The Examiner required a restriction of the application and I complied.

The '591 patent covers the use of a satellite constellation to transmit encrypted signals that are used in a bistatic radar system that allows an aircraft to detect other aircraft and other objects. The satellite constellation can also be used for communications, a backup for GPS, and for long baseline interferometry to validate the digital terrain elevation database.

2. U.S. Patent 8,643,534 **System for sensing aircraft and other objects** issued February 4, 2014 to Margolin.

This patent resulted from the divisional of the application that resulted in the '591 patent. This covers the use of ADS-B as a radar.

3. After I received the '534 patent I improved the use of ADS-B as a radar and filed Application No. 14/146,202 **ADS-B Radar**. This application was filed January 2, 2014 and was published as U. S. Patent Application Publication 2015/0097714 on April 9, 2015.

Abstract

The reliability and safety of Automatic Dependent Surveillance-Broadcast (ADS-B) are improved by using the signals transmitted from an ADS-B unit as a radar transmitter with a receiver used to receive reflections.

I recently received a Notice of Allowance dated 6/20/2016.

I believe I deserved more from the Examiner but I am old and decrepit and I prefer to spend my time on other things.

Although I do not want to continue the Dance with the Examiner for Appl. 14/146,202 your company's attorneys might be willing to do that.

Note that an RCE can be filed up until the Issue Fee is paid. (37 C.F.R. §1.114 (a)). To preserve the right to file an RCE I have not yet paid the Issue Fee, and am planning to wait until a few days before the three-month deadline.

Also note that I filed a Terminal Disclaimer for this application for U.S. Patent 8,643,534 so both patents must be bundled together.

4. I also have U.S. Patent 8,838,289 **System and method for safely flying unmanned aerial vehicles in civilian airspace** issued September 16, 2014 to Margolin.

Abstract

A system and method for safely flying an unmanned aerial vehicle (UAV), unmanned combat aerial vehicle (UCAV), or remotely piloted vehicle (RPV) in civilian airspace uses a remotely located pilot to control the aircraft using a synthetic vision system during at least selected phases of the flight such as during take-offs and landings.

The File Wrappers for these patents (and allowed Appl. 14/146,202) are available through Public PAIR.

If your company is interested in my patents I would prefer an outright sale for a lump sum with no royalties but I am flexible if you would prefer a different deal. The patents are available as a group or singly (except for '534 and Appl. 14/146,202).

I am represented by Brownstein Hyatt Farber Schreck, LLP. If you are interested in my patents they would handle the negotiations and the contract.

I mentioned that I prefer to spend my time on other things. Some examples are:

U.S. Patent Application Publication 20150348393 **Flame Sensing System** published December 3, 2015
(waiting for a FOAM).

Abstract

This invention relates to the field of sensing flames in equipment using a combustion burner such as gas furnaces by using the electrical properties of flames. In a first group of embodiments flame rectification is used to cause distortion of a signal having a selected waveform. A harmonic of the distorted waveform is detected thereby providing flame proof. In a second group of embodiments flame rectification is used as a mixer to cause two signals having selected waveforms to produce sum and difference signals. The sum and/or difference signals are detected thereby providing flame proof.

I have also filed an application for **System to Provide a Backchannel to an HVAC Thermostat** which has not yet been published.

Sincerely yours,

/Jed Margolin/

Jed Margolin

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