

## Appendix A

Claim 1 of Thunder U.S. Patent 9,547,373

<u>Claim Recitations</u>	<u>2019 PEG Analysis</u>
1. A vehicle operating system for operating a vehicle including a driving seat for a vehicle driver and at least one passenger seat for passengers, the vehicle operating system comprising:	The claim recites a system. System claims have been held to fall within the “machine” category of 35 USC 101.
camera devices for capturing at least one of images of gestures of the driver and images of gestures of a passenger;	This is a structural element; and is an element in addition to any recitation of an abstract idea.
a storage device for storing operating signals corresponding to gesture actions;	This is a structural element; and is an element in addition to any recitation of an abstract idea.
a processing device configured to:	A processing device is a computer. The claim recites the functions performed by the computer. As such, this element by itself is given no weight and does not demonstrate an “inventive concept.”
control the camera devices to capture gesture action images of the driver and passenger simultaneously or substantially simultaneously,	Capturing images constitutes gathering data for further analysis, which constitutes insignificant activity.
convert the captured gesture action images into corresponding operating signals according to the operating signals corresponding to the gesture actions stored in the storage device,	Converting images into signals is a basic function of a computer, or processor. This element constitutes an abstract idea.
determine a first operational signal is from a gesture action image for the driver and determine a second operational signal is from a gesture action image for the passenger, the first and second operational signals both for operating a same component of the vehicle,	This element is part of the gathering data activity and constitutes insignificant activity.
determine whether the first operation signal is consistent with the second operation signal,	This element functions to determine if the driver’s gesture is consistent with the passenger’s gesture. As such, this element falls into the category of “mental processes,” and is an abstract idea.
select the first operational signal as the operating signal and discard the second operational signal by virtue of the first operational signal being from the driver in response to the determination that first operation signal is not consistent with the second operation signal,	This element selects the driver’s gesture if the driver and passenger gestures are no consistent. This “selection” function is a “mental process” and is an abstract idea.

<u>Claim Recitations</u>	<u>2019 PEG Analysis</u>
and send out the operating signals;	This step performed by the processor, or computer, is what computers do to act on data that is gathered and analyzed. This step does not demonstrate an “inventive concept.”
and execution devices configured to receive the operating signals sent by the processing device, and to execute operations corresponding to the operating signals.	This is an additional element.