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(54) Title: METHOD AND SYSTEM FOR LOCATING AND MONITORING FIRST RESPONDERS

(57) Abstract: The present invention is directed to methods and systems for locating and monitoring the status of people and move-
able assets, such as first responders, including firefighters and other public service personnel, and their equipment both indoors and
out. The invention can provide for locating and monitoring the status of people and assets in environments where GPS systems do
not operate, or where operation is impaired or otherwise limited. The system and method uses inertial navigation to determine the
location, motion and orientation of the personnel or assets and communicates with an external monitoring station to receive requests
for location, motion orientation and status information and to transmit the location, motion orientation and status information to the
monitoring station. The system and method can include storing the location, motion and orientation data as well as status data, in the
event that the communication system is unable to communicate with and transmit information to the monitoring station, the system
will wait until communication is restored and transmit the status information to the monitoring station to update the location, motion
orientation and status information for the person or asset.

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