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Patent Search

Invention Title	Safety management system for construction site workers
Publication Number	24/2022
Publication Date	17/06/2022
Publication Type	INA
Application Number	202241030743
Application Filing Date	29/05/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRONICS
Classification (IPC)	G08B0025010000, G06Q0010060000, G08B0021140000, G08B0005360000, G08B0003100000

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Abstract:

A safety management system for a worker at a tunnel construction site is disclosed. The system includes a server for controlling the safety management system; rout at predetermined intervals at the tunnel construction site; a worker terminal carried by the worker, and at least one information collecting terminal for receiving work information from the worker terminal and collecting environment information of the tunnel construction site to transmit the collected data.

Complete Specification

Description: The current invention pertains to a worker safety management system used at construction sites.

Background of the Invention:

Today's traffic, drainage, and waterways (including irrigation, power generation, water, and sewage) on roads, railroads, subways, and underground walkways, as well as transportation and underground storage of oil, underground joint wards of telecommunications and electricity, underground storage of nuclear waste, mines, and installations all, pose a threat to the environment. Construction of tunnels, which involves artificially digging and piercing rock or soil for tunnel usage, is now under several different locations.

The construction of such tunnels is an extremely hazardous endeavor, and accidents big and small happen due to the explosives, fire, heavy equipment, etc., of the construction. Accidents involving unauthorized workers or workers from other countries in the tunnel are particularly common. Up until this point, safety officers in construction of tunnels have been attempting to prevent accidents by understanding the location of workers within tunnels, the presence of workers in potentially hazardous areas during blasting, and the entrance of workers who are not authorized to be there. However, it might be difficult to communicate when in a tunnel. There was no other viable solution other than having the safety officer do a visual examination.

As a result, the significance of a system that can identify the location of workers within the tunnel to prevent accidents during tunnel construction and a system that determine the final location of workers to secure golden time in the event of an accident is becoming increasingly apparent.

The provision of a worker safety management system for the tunnel construction site is the issue that is intended to be addressed by the present invention.

The difficulties that the present invention can address are not limited to the problems that have been discussed above and other problems that have not been mentioned.

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Page last updated on: 26/06/2019