Patent Search

Invention Title	Smart glasses integrated with image processing and Internet of things for visually challenged people
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Abstract:

The present invention relatesa smart image processing based IoT integrated glasses for visually challenged person. The system comprises a camera microcontroller, storage device. An IoT based method to assist a visually challenged person comprises steps:capturing objects by a camera module, t each, and processing the same to obtain the frame of the objects in form of vectors and send the same to a microcontroller; sensing the objects or c sending corresponding signals to the microcontroller; encoding the input data by an encoder and analyzing the same with the database; forecasting analyzed data by an RNN (Recurrent neural networks) module; decoding the forecast data and playing the same through an audio speaker to assist a the visually challenged person gets pre-defined path and instruction which is based on IoT enabled cloud data storage system.

Complete Specification

Description:Technical field of invention:

The present invention relatesa smart image processing based IoT integrated glasses for visually challenged person.

Background:

Emerging new technologies are very helpful for impaired person. One of them IoT integrated glasses can be big revolution for visually impaired per integrated with new technology that employ to identify obstructions via transmission and absorption of sonic waves are one of the most recent ad solutions, on the other hand, are only instruments for avoiding collisions, as they only identify the presence of a barrier. They can't differentiate ob differentiate between a chair and a pole, that is causing the blockage for visually impaired people.

Prior Art:

202211004910, disclose a glass assembly for the visually impaired, comprising: Lidar (LIGHT DETECTION AND RANGE) module, an ARDUINO UNO ((hardware to software), micro-vibration motors, an Arduino speaker, and a mic, one or more camera and a blind stick

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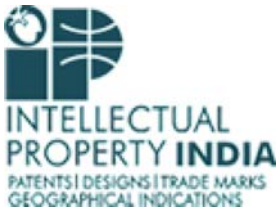

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TITLE OF INVENTION	Smart glasses integrated with image processing and Internet of things for visually challenged people
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Application Status

APPLICATION STATUS	**Awaiting Request for Examination**

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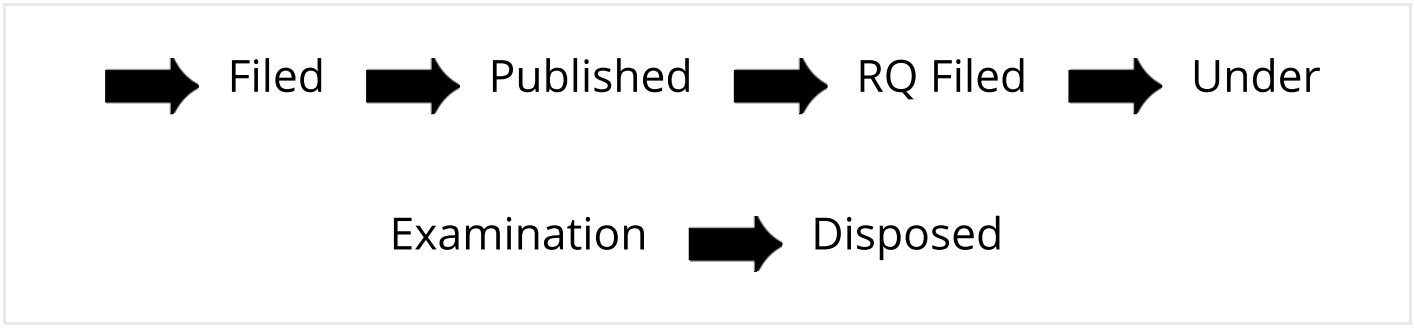

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