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### Patent Search

Invention Title	IOT BASED DEVICE AND METHOD FOR DETECTING BABY'S CRY AND REASON BEHIND THE BABY'S CRY
Publication Number	41/2022
Publication Date	14/10/2022
Publication Type	INA
Application Number	202241055809
Application Filing Date	28/09/2022
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRONICS
Classification (IPC)	G10L0025480000, G10L0021020800, A61B0005080000, G10L0025510000, A61B0005000000

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#### Abstract:

IOT BASED DEVICE AND METHOD FOR DETECTING BABY'S CRY AND REASON BEHIND THE BABY'S CRY ABSTRACT An Internet of Things (IoT) based baby monitoring device comprising: a sound sensor (102) configured to capture an audio of a crying baby; and a processing unit (104) connected to the sound sensor (102), and configured to capture audio of the baby in form of audio file from the sound sensor (102); pre-process the audio file for removing noise from the captured audio by using a pre-processing technique; extract features from the pre-processed audio file by using a feature extraction technique; classify the received audio file based on the extracted features reasons selected from hungry, tired, discomfort, belly pain, burping, or a combination thereof; and display the classified reason of baby's cry on a display unit (106).  
 Figures: 7 Figure 1A is selected.

## Complete Specification

Description:BACKGROUND

Field of Invention

[001] Embodiments of the present invention generally relate to a baby monitoring device and particularly to an Internet of Things (IoT) based baby monitoring device that detects baby's cry and reason behind the baby's cry.

Description of Related Art

[002] Approximately 140 million babies are born every year all around the globe. Monitoring the babies is one of the most important tasks to keep track of baby and wellbeing. However, for new age parents and caretakers, this becomes quite a difficult task and in case of medical emergency, timely medical support might not be available at all times in a day. Traditionally, products that were available in the market facilitate baby cry detection only. However, such products are unable to identify the reason behind the baby's cry.

[003] Further, to overcome the aforementioned issues, devices have been developed. Such devices are capable to detect the baby's cry and reasons behind the cry. However, such devices consume a lot of time in determining the reason behind the baby's cry. Moreover, users face a lot of connectivity issues while using such devices. Also, such devices fail to provide an accurate result.

[004] There is thus a need for an improved and advanced Internet of Things (IoT) based baby monitoring device that can administer the aforementioned limitations in a more efficient manner.

SUMMARY

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Page last updated on: 26/06/2019