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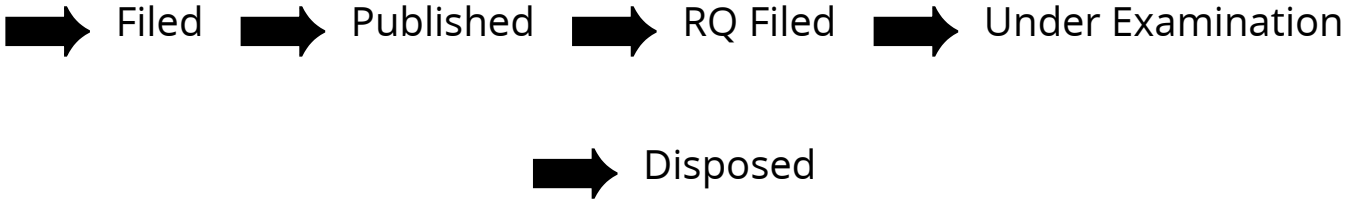

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(57) Abstract :
ABSTRACT VIRTUAL MOM RESPONSIVE BABY MONITORING TOY • The virtual mom is a responsive baby monitoring toy used to reduce the stress on working mothers. As working mothers find it tedious to manage both work and taking care of the baby, this toy helps them monitor the baby when they're at work. It's a smart toy, equipped with sensors to track different movements /actions of the baby/infant. Trained Deep Learning models and some sensor data help in interpreting the movements/actions of the baby. The inferences made by the sensors are sent to a server through Wi-Fi, from where the mobile application can access and display them. The mobile application acts as the two-way communicator which conveys the moods and actions of the baby to the mother and then returns the chosen style of response from the mother to the toy. The toy provides a provision for the mother to either speak to the baby or play pre-recorded audio clips or play music which makes the baby feel relaxed. The response received from the mother's end is then processed and the toy performs the required action to calm the baby. When the mother is at work, she can observe the kid™s activities. Some working parents employ babysitters and caretakers to take care of their children while they™re away. Sometimes these caretakers don™t perform their duty genuinely and using this toy, parents can also monitor how the caretakers are behaving with the child. The mother can also send a response whenever she wants to talk and engage the baby, hence making virtual parenting possible, and successful. Fig.2. Circuit Diagram

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