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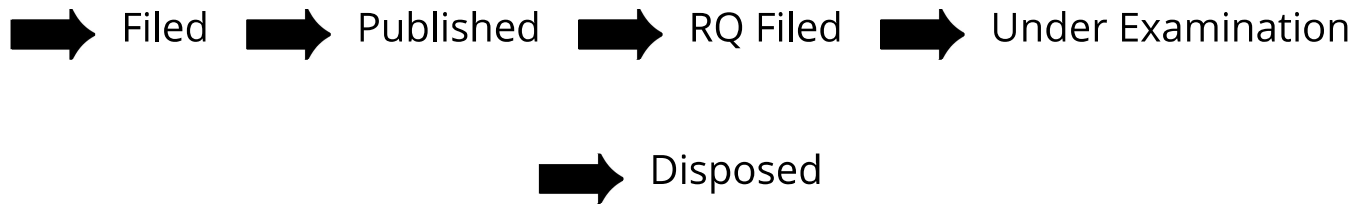Government of India

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TITLE OF INVENTION	FUZZY NEURAL OPTIMISED FUZZY LOGIC CONTROLLER BASED DYNAMIC VOLTAGE RESTORER FOR POWER QUALITY IMPROVEMENT WITH NON-LINEAR
FIELD OF INVENTION	ELECTRICAL
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(57) Abstract :
FUZZY NEURAL OPTIMISED FUZZY LOGIC CONTROLLER BASED DYNAMIC VOLTAGE RESTORER FOR POWER QUALITY IMPROVEMENT WITH NON-LINEAR LOADS ABSTRACT As the number of electronic devices and renewable energy sources grows, power quality has become a pressing concern. The power quality is a measurement of how efficiently electricity is utilised after it has been delivered. Power quality refers to how well power travels from its source to its final destination. Among the parameters of power quality are power supply reliability, voltage magnitude, frequency, symmetry, and waveform. Using parameters, one may evaluate power quality. Today, insufficient electrical service is a serious concern that may quickly pile up to a lot of financial hardship. Numerous studies have shown that power quality concerns such as sags, swells, harmonics, flickering, etc. cost the industrial sector a significant amount of money. As the number of electronic devices and renewable energy sources increases, more R&D is being invested in the improvement of electricity. Power quality relates to the condition of power between its generation and delivery to businesses, factories, and homes. Voltage problems account for at least fifty percent of all power quality problems. Most people agree that voltage sags, harmonic distortion, and unequal voltage are the three most important power system challenges. This is because these concerns impact utilities and the people who utilise them. The Dynamic Voltage Restorer, for example, has been proved to be the most effective and efficient technique to deal with power outages. Restoring the load voltage to its pre-sag value and smoothing it in fault and nonlinear load conditions has been demonstrated to be a highly effective application of the Fuzzy Neural Controller. It has proven useful in all circumstances for keeping harmonics within acceptable levels.

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