

ELECTRIC HOUSEHOLD APPLIANCE REMOTE MONITORING SYSTEM

Abstract

The problem to be solved is to specify a connected electric household appliance at a power plug from a measurement result of a power waveform, or the like, of each piece of electric equipment when power is distributed to a plurality of electric equipment, and to control an EoD system by measuring and calculating a request power amount of the electric household appliance and recognizing an operation state of each piece of electric equipment to detect abnormal operation. As a solution, an electric household appliance remote monitoring system comprised of a smart tap to which one or two or more power plugs of electric equipment can be inserted, an electric household appliance incorporating a smart tap function, and a server, the smart tap including voltage waveform measuring means and/or current waveform measuring means and communication means, the voltage waveform measuring means and the current waveform measuring means measuring a voltage waveform and a current waveform of power to be supplied to one or more pieces of electric equipment via the power plug connected to the voltage waveform measuring means and the current waveform measuring means, the communication means transmitting the voltage waveform and/or the current

waveform or these waveforms to the server provided at a different place from a place where the tap is provided, the server having a function of judging an operation state of each piece of connected electric equipment based on the voltage waveform and/or the current waveform received from the smart tap and, when detecting abnormality of the electric equipment, transmitting the detection to an external network, is provided.