

DEVICE AND METHOD FOR CONTROLLING OUTPUT OF LOAD

ABSTRACT

5 The present invention discloses a device and method for controlling an output
of a load, the device including: a conduction angle changing circuit; a current scanner;
and a digital signal processing unit including: a preset load type acquiring module; and
a continuous template matching module adapted to perform continuous template
10 matching at a predetermined timing in an event that the acquired preset load type is a
non-linear dimmable load, the continuous template matching module including: a
conduction angle range determining sub-module adapted to determine a conduction
angle range; a local pattern acquiring sub-module adapted to acquire a local pattern in
response to changing the conduction angle within the conduction angle range; a
15 matching sub-module adapted to match the local pattern with the local pattern in a
current pattern template; and an updating sub-module adapted to update a control
parameter for the load in accordance with a matching result. According to the technical
solution of the invention, it is possible to effectively avoid wrong operations due to load
replacement or variations in load characteristics or the like by monitoring and
controlling the load online, without affecting the normal use for a user.

(Fig. 3)