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(54) **NON-INTRUSIVE LOAD IDENTIFICATION METHOD**

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(57)   **ABSTRACT**

A non-intrusive load identification method employs a non-intrusive detection device to detect a total current on the main power line (i.e., power entrance) of a power system to identify the types of primary loads. The non-intrusive load identification method obtains a turned-on time interval when the present load of the primary loads is turned on or a turned-off time interval when the present load of the primary loads is turned off, obtains a transient turned-on current or a transient turned-off current based on the turned-on time interval or the turned-off time interval, and converts the transient turned-on current or the transient turned-off current into the present power feature of the present load, thereby identifying the type of the present load.