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(57) **ABSTRACT**

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Energy management system having at least one submetering and communication module, the module including: a sub-metering unit configured for metering appliance related power consumption parameters related to an electr(on)ic appliance; and a first communication interface for communicating the appliance related power consumption parameters with a server; a first processing unit configured for processing the appliance related power consumption parameters and providing a sub-set of power consumption parameters; a main metering unit configured for metering main power consumption parameters related to a main electricity cable; a second communication interface for communicating the main power consumption parameters with the server, a second processing unit configured for processing the main power consumption parameters and providing a main set of power consumption parameters; characterized in that it further includes a third processing unit configured for correlating the sub-set with the main set and validating the presence of the sub-set in the main set.

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