

Title (en)
METHOD FOR MINIMIZING ENERGY CONSUMPTION OF A STORAGE WATER HEATER THROUGH ADAPTATIVE LEARNING LOGIC

Title (de)
VERFAHREN ZUR MINIMIERUNG VOM ENERGIEVERBRAUCH IN EINEM HEISSWASSERSPEICHER DURCH ADAPTIVEN LERNEN LOGIK

Title (fr)
METHODE POUR MINIMISER LA CONSOMMATION D'ENERGIE D'UN CHAUFFE-EAU A ACCUMULATION A TRAVERS DE LA LOGIQUE A APPRENTISSAGE ADAPTATIF

Publication
EP 2362931 B1 20160217 (EN)

Application
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Priority

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- IT AN20080052 A 20081128

Abstract (en)
[origin: WO2010061264A1] Method for managing a storage water heater (1) comprising a first learning step during a first drawing cycle and a second step of management of said water heater (1) in subsequent cycles that repeat substantially unchanged relative to the first cycle. During said first step, information is acquired on the water heating speed (lwh) and for each drawing (Pk), on the corresponding drawing start times (tik,) and temperature drops (?Tk) caused. During said second step, using the data learnt in the first step, for each drawing (Pk) the water heating is started with an advance time (?tadvance) relative to the drawing start time (tik) sufficient for bringing the temperature (Tm) to the drawing temperature value (Tset.k) required for ensuring said drawing (Pk). Said drawing temperature value (Tset.k) is given by formula $Tset.k = ?Tk + Treq.max + 5$ where term Treq.max has a predetermined value that depends on the type of water heater (1).

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