

Title (en)

METHOD FOR MINIMISING ENERGY CONSUMPTION OF A STORAGE WATER HEATER

Title (de)

VERFAHREN ZUR MINIMIERUNG DES ENERGIEVERBRAUCHS EINES HEISSWASSERSPEICHERS

Title (fr)

MÉTHODE POUR MINIMISER LA CONSOMMATION D'ÉNERGIE D'UN CHAUFFE-EAU À ACCUMULATION

Publication

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Application

EP 09774713 A 20091117

Priority

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- IT AN20080051 A 20081128

Abstract (en)

[origin: WO2010061268A2] Method for managing a storage water heater (1) aimed at reducing thermal dispersions, characterised in that at short time intervals (dw), all the w drawings (P₁..., P_i..., P_w) are taken into account, the drawing start time (t_i) whereof falls within a predetermined time window (?tw) immediately following the current time; at said drawing start times (t_i) comprised in said time window (?tw), as many fictitious drawings (P' 1, ..., P' i, ..., P' w) are constructed, each having a fictitious drawing start temperature (T_{set.i}); for each of said fictitious drawings (P' 1, ..., P' i, ..., P' w), the fictitious heating start time (t_{ONi}) is calculated; upon reaching the earliest of said heating start times (t_{ONi}), the target temperature (T_{target}) is set to the fictitious drawing start temperature value (T_{set.i}) of the corresponding fictitious drawing (P' i) provided that it is not higher than the maximum setup temperature (T_{set.max}) whereas before said earliest heating start time (t_{ONi}) is reached, the target temperature (T_{target}) is kept equal to the maintenance temperature (T_{stand-by}). The method keeps the temperature to the minimum values required to ensure the drawings.

IPC 8 full level

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