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(71) Applicant: **GRUNDFOS HOLDING A/S** [DK/DK]; Poul Due Jensens Vej 7, 8850 Bjerringbro (DK).

(72) Inventors: **ROSENRING, Daniel**; c/o Grundfos Holding A/S, Poul Due Jensens Vej 7, 8850 Bjerringbro (DK). **TSOUVALAS, Agisilaos**; c/o Grundfos Holding A/S, Poul Due Jensens Vej 7, 8850 Bjerringbro (DK). **KALLESØE, Carsten Skovmose**; c/o Grundfos Holding A/S, Poul Due Jensens Vej 7, 8850 Bjerringbro (DK). **PETERSEN, Joakim Børlum**; c/o Grundfos Holding A/S, Poul Due Jensens Vej 7, 8850 Bjerringbro (DK).

(74) Agent: **GUARDIAN IP CONSULTING I/S**; Diplomvej, Building 381, 2800 Kgs. Lyngby (DK).

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(54) Title: CONTROLLING A BOOSTER PUMP IN A DISTRIBUTED-PUMP HYDRONIC HEATING OR COOLING SYSTEM

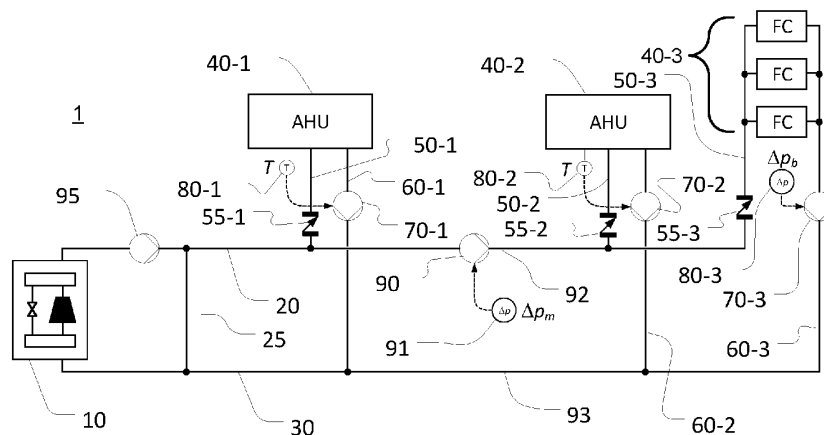


FIG. 1

(57) Abstract: A hydronic system for heating and/or cooling a target structure, the system comprising: at least one supply line, at least one return line, a plurality of branch lines, each branch line fluidly connecting a terminal unit with the supply line or with the return line, a plurality of branch pumps, each configured to pump fluid through a respective one of the plurality of branch lines, at least one booster pump configured to pump fluid through the supply line or the return line, the at least one booster pump being arranged in series with one or more of the plurality of branch pumps, the at least one booster pump being operable at a controllable booster pump speed, wherein the booster pump speed is controllable to be larger than a minimum booster pump speed, wherein the at least one booster pump comprises a booster pump controller configured to: receive one or more pressure sensor signals indicative of a differential pressure between the supply line and the return line, determine a booster pump control error indicative of a difference between a reference pressure and the

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differential pressure, stop pump operation of the booster pump responsive to the booster pump operating at the minimum booster pump speed and the differential pressure exceeding the reference pressure.