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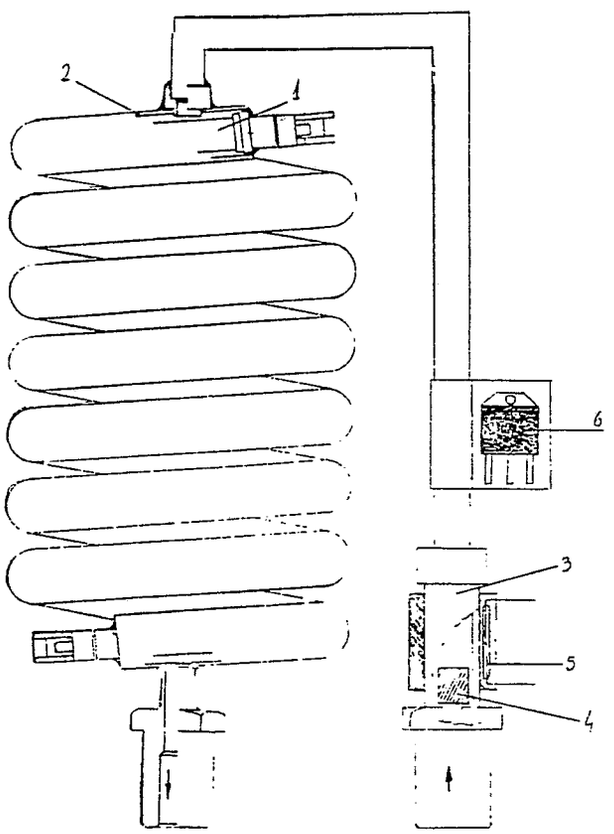
(54) Boiler of passage.

(57) By the new technical solution is achieved maximal using of transmission of heat to water what is enabled flowing of water around the heater (1) which is in the tube (2). By the particular solution of the indicator of flowing (3) is enable using of boiler for any nominal pressure in city's water supply. Indicator of flowing (3) is solved in such way, that is damage of boiler is impossible / explosion of too big pressure , switching on without water, etc. /. Heater switchs on itself in section over the reed switch (5), resistor of breakthrough of voltage. The complitly technical solution enable saving of electricity around 80% and is very easy for assembly-line production.



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BOILER OF PASSAGE

The field of technology

The field of invention is heating of water or any other medium, by means of electric power for heating of medium in flowing.

Technical problem

Technical problem is solved by the heating of medium in flowing and maximal using of transmission of heat to medium which heats itself / water, oil, etc./ like a same system of switching on the boiler.

The state of technology

Previous technical solutions which are known to me, haven't maximal using of transmission of heat and former boilers weren't multi-purpose that mean they weren't adopt of work on any nominal pressure in tubes / city water supply, etc./

Description of technical problem

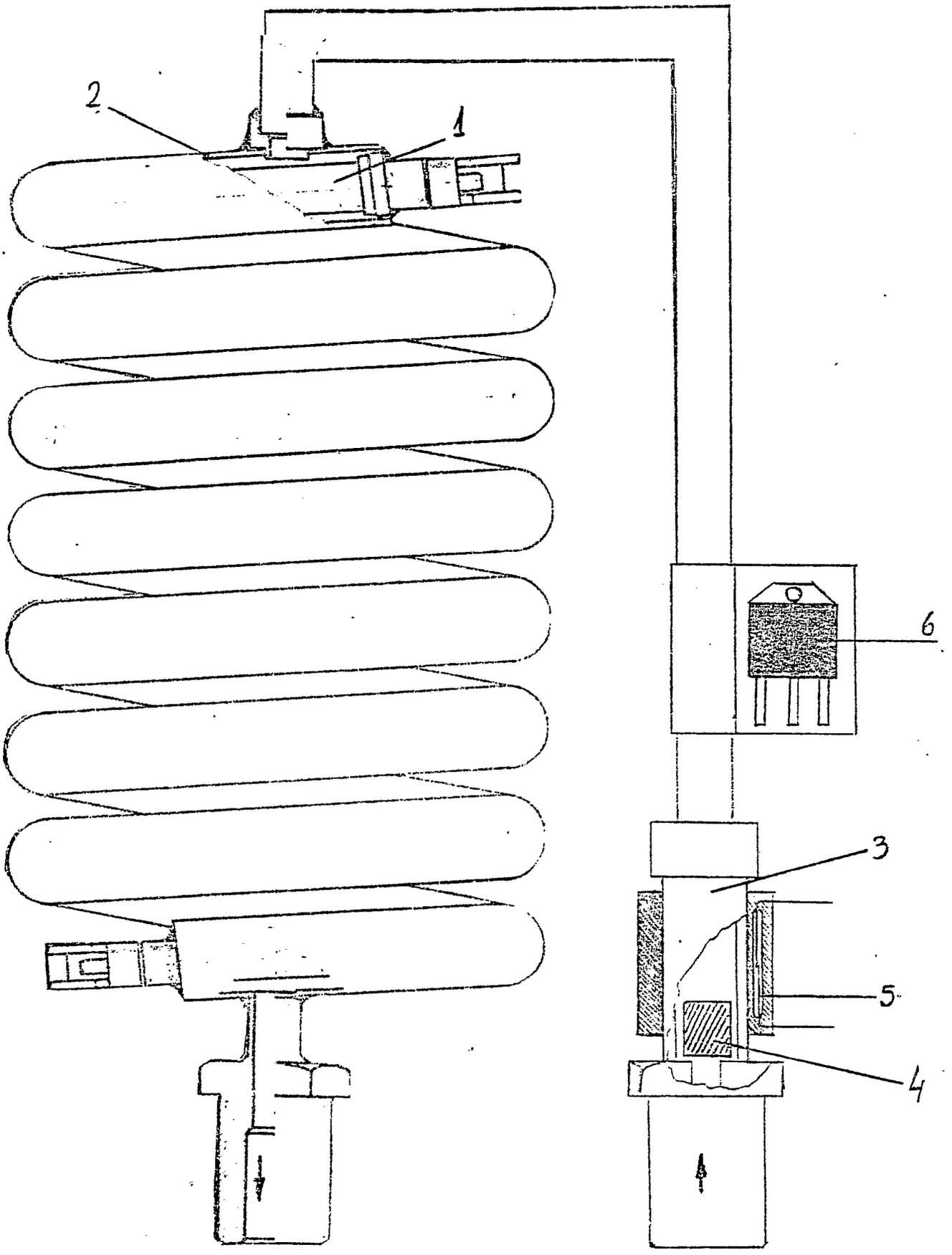
In contrast to existing boilers of passage at this boiler of passage, heating is achieved in tube through which flowing the water / or smth. similer/ and there is in the middle of the tube, throught the entire length, the electrical heater which heats water in flowing.The way of switching on the boiler calls out moving of driving magnet in indicator of flowing of water, in any flow and in any pressure and than pull toward by the magnetic forces the contacts of reed switchs.

On that way close the power circuit through " the zero guide " and resistor, and give the inducing power to triac / gate / and switch on full power of heater under voltage.

By this way, can be achieved exceptional incontenstablement and safety of working, especially at low flowings and pressures of flowing of water, can not produce pressure of overheating and switching on boilers is impossible without pressure in water-supply.This technical solution can be used for any nominal pressures.

Claims

The boiler of passage is technicly solved for maximal using of transmission of thermal energy to water indicated that heater 1 is put in tube 2 which is mechanical combined with indicator of flowing 3 which because of that switch on through the driving magnet 4 and reed switch 5 triac 6 and by the resistors 7 and 8 pass through the maximal energy on heater 1.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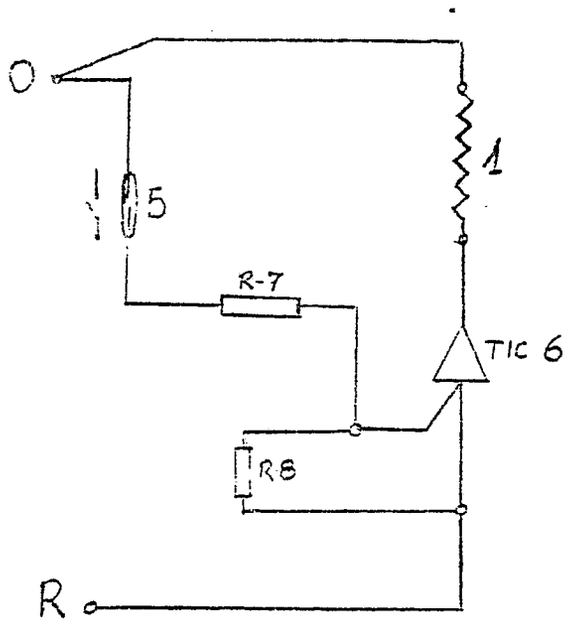
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EUROPEAN SEARCH REPORT

Application Number

EP 88 11 4643

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	GB-A-2 099 557 (LOUDON) * Page 2, lines 67-84 *	1	F 24 H 9/20

TECHNICAL FIELDS SEARCHED (Int. Cl.4)

F 24 H

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	15-11-1988	VAN GESTEL H.M.

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
Y : particularly relevant if combined with another document of the same category
A : technological background
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E : earlier patent document, but published on, or after the filing date
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