

ABSTRACT

A construction machine that can limit consumption of battery electric power is provided. The construction machine includes: air-cooled heat exchangers 47, 48; a cooling fan 49 for generating cooling air for the heat exchangers 47, 48; a fan electric drive motor 50 that is driven by electric power of a battery 8 for rotating the cooling fan 49; an inverter unit 30 for drivingly controlling the fan electric drive motor 50; a lock lever 25 disposed at a boarding-alighting port and configured to be operated into an unlocked position and a locked position; and a lock valve 42 for making an operation of an operating device 27 or the like ineffective or the operating device inoperative when the lock lever 25 is operated into the locked position. The inverter unit 30 stops the fan electric drive motor 50 when the lock lever 25 is operated into the locked position.

Refer to figure 4

CLAIMS

1. A construction machine comprising:
an air-cooled heat exchanger (47, 48);
a cooling fan (49) for generating cooling air for the heat exchanger (47, 48);
a battery (8);
a fan electric drive device (50) for rotating the cooling fan (49), the fan electric drive device being driven by electric power of the battery (8),;
fan control means (30) for drivingly controlling the fan electric drive device (50);
a lock lever (25) disposed at a boarding-alighting port and configured to be operated into an unlocked position and a locked position;
an operating device (27 or the like) for directing an operation of a hydraulic actuator; and
locking means (42) for making an operation of the operating device (27 or the like) ineffective or the operating device inoperative when the lock lever (25) is operated into the locked position, wherein:
the fan control means (30) stops the fan electric drive device (50) when the lock lever (25) is operated into the locked position.

2. The construction machine according to claim 1, further comprising:

operation detecting means (39) for detecting whether the operating device (27 or the like) is in a condition of

not being operated, wherein:

the fan control means (30) stops the fan electric drive device (50) when a predetermined period of time elapses under a condition in which the lock lever (25) is operated into the unlocked position and the operating device (27 or the like) is in the condition of not being operated.

3. The construction machine according to claim 1 or 2, further comprising:

a main pump (32) for generating hydraulic fluid to be supplied to the hydraulic actuator;

a main electric drive motor (31) for driving the main pump (32), the main electric drive motor being driven by the electric power of the battery (8); and

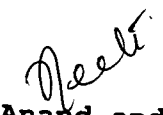
main control means (30) for drivingly controlling the main electric drive motor (31), wherein:

the main control means (30) stops the main electric drive motor (31) when the lock lever (25) is operated into the locked position.

4. The construction machine according to claim 3, wherein:

the main control means (30) stops the main electric drive motor (31) when a predetermined period of time elapses under a condition in which the lock lever (25) is operated into the unlocked position and the operating device (27 or the like) is in the condition of not being operated.

Dated this 13th day of April 2012


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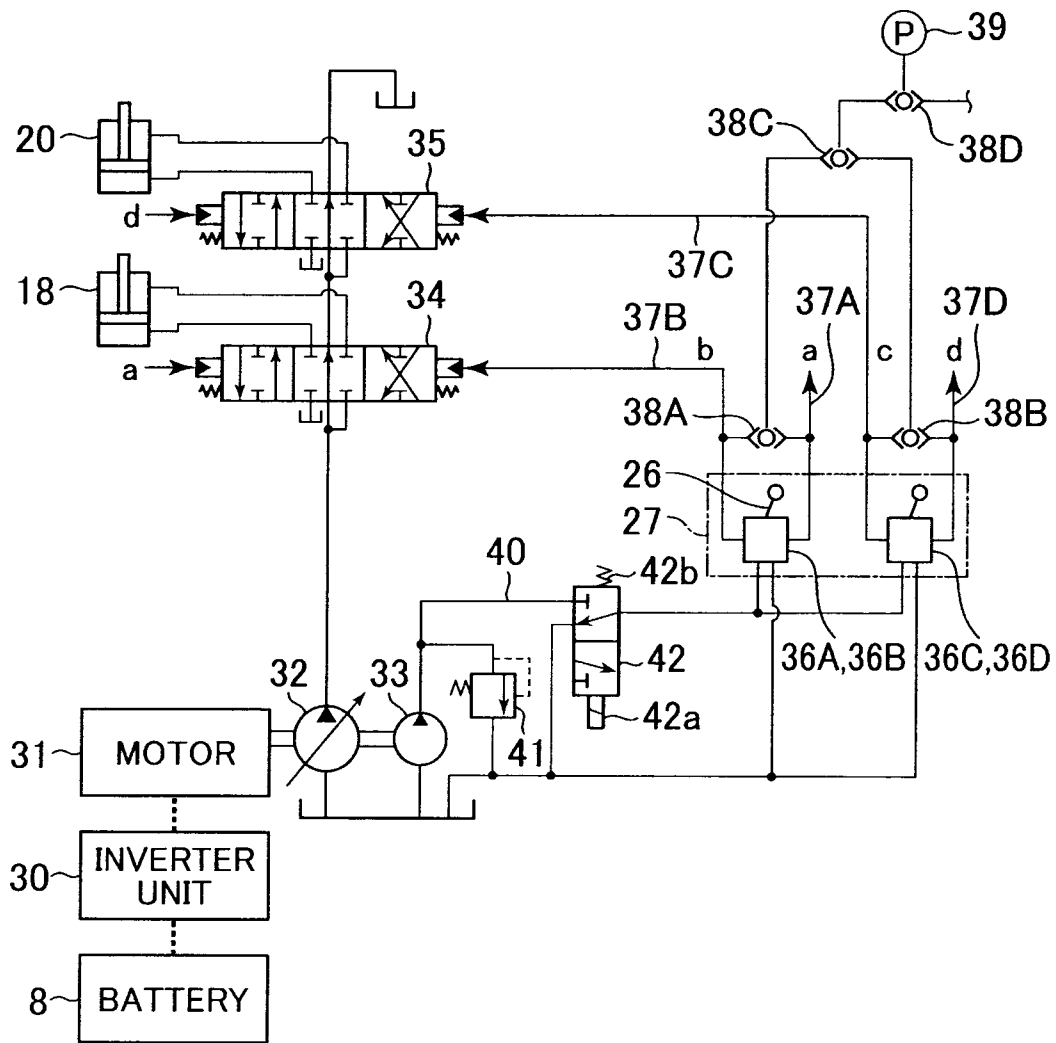
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FIG. 2

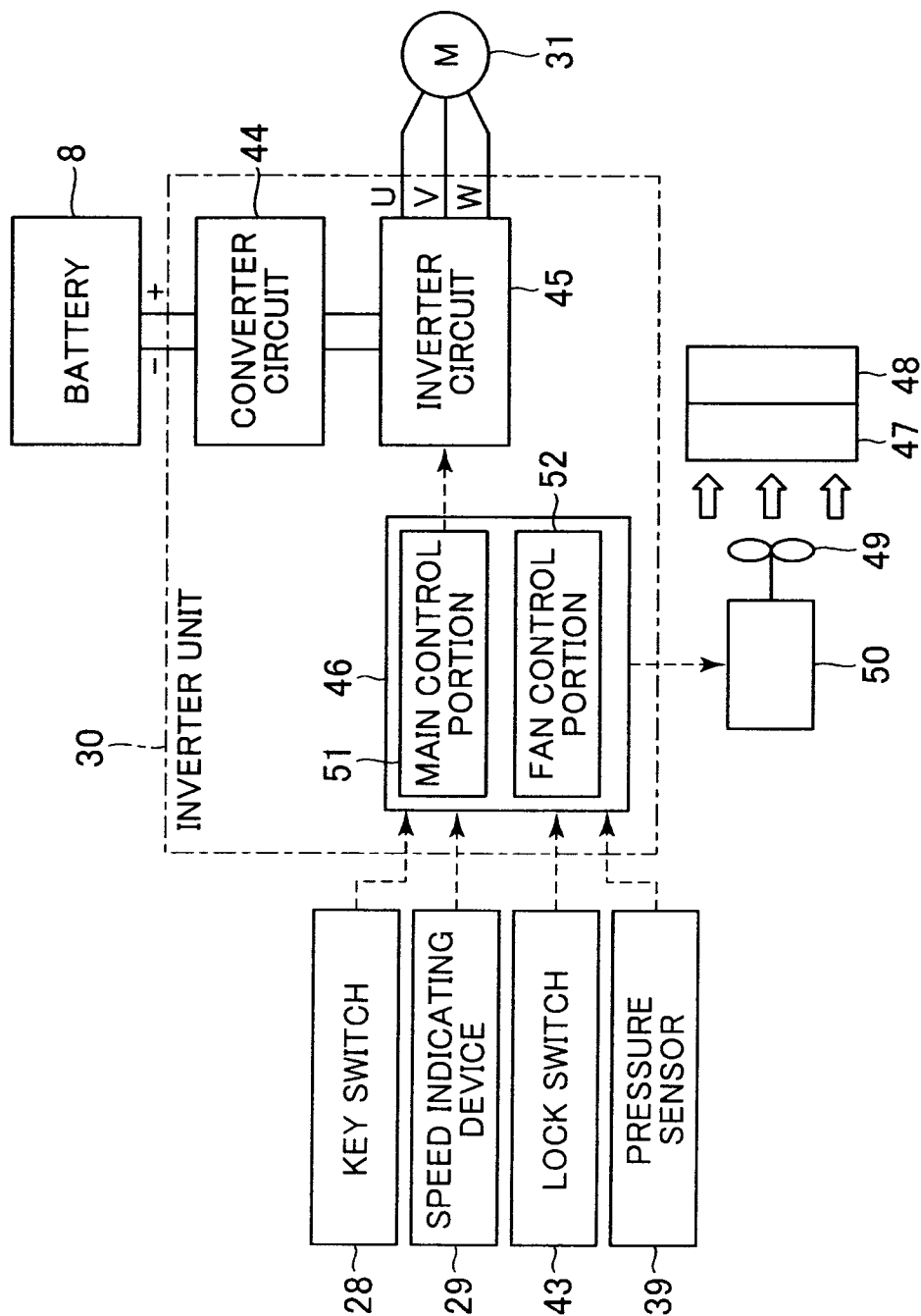


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FIG. 3

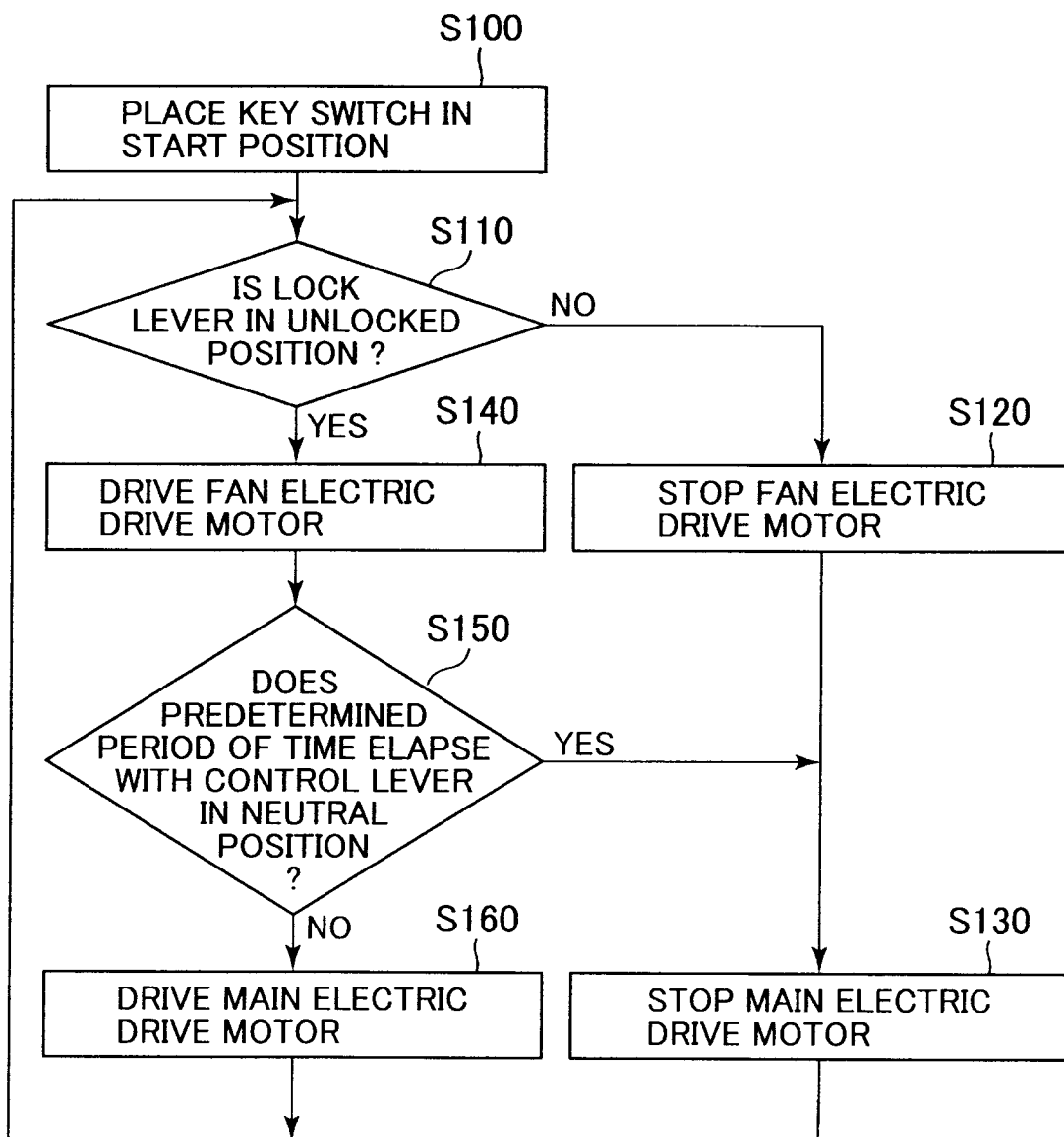


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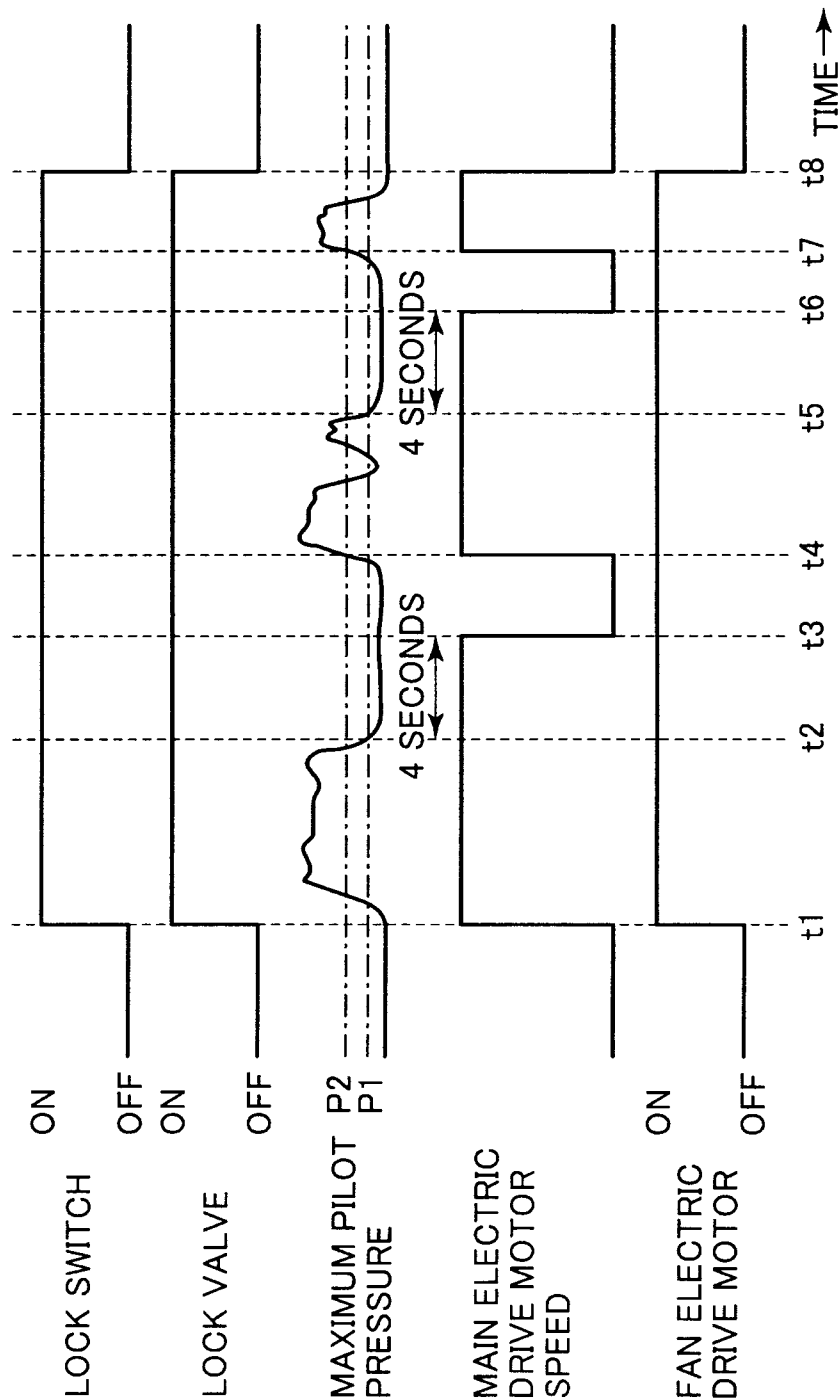
FIG. 4



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FIG. 5



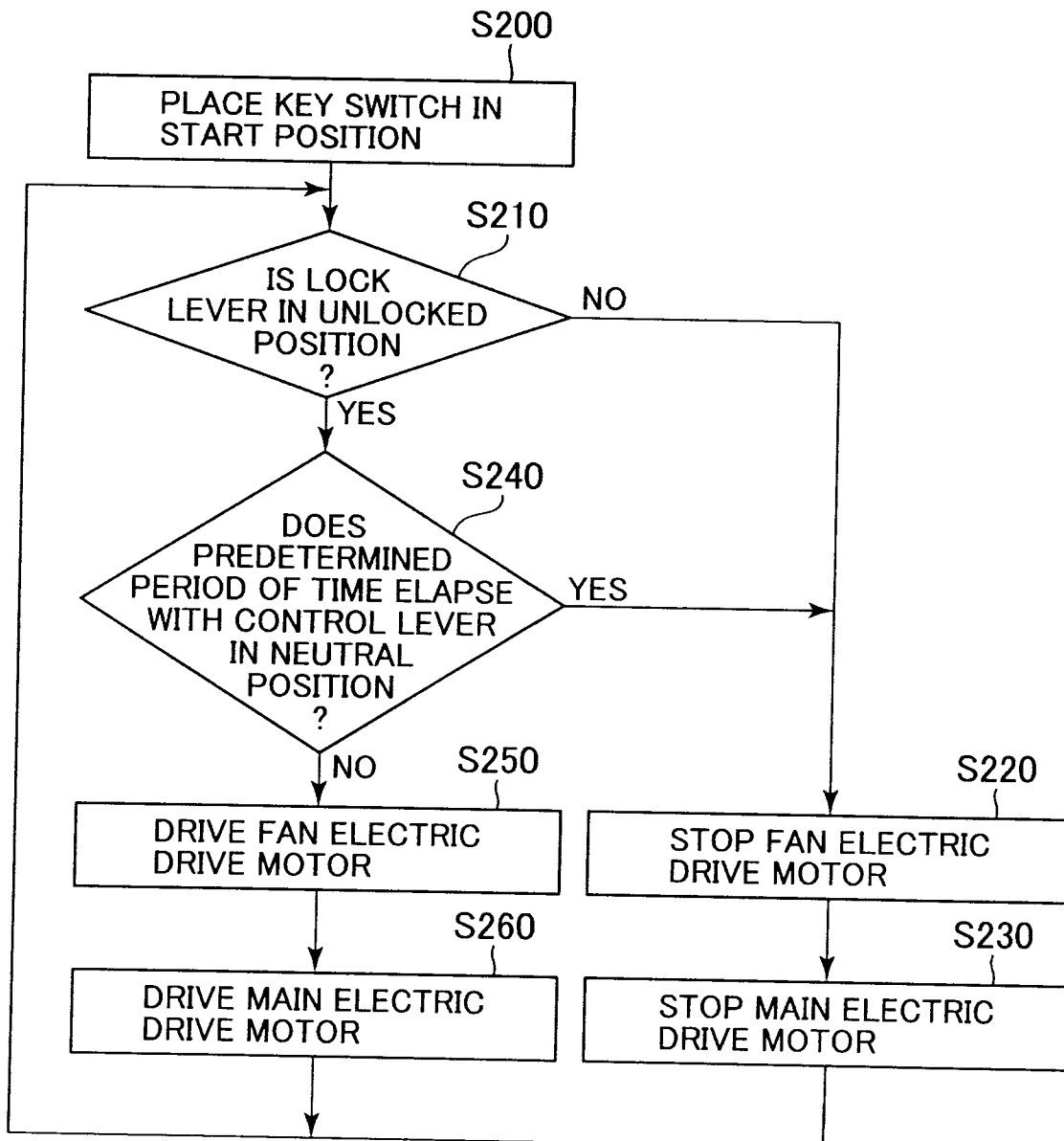
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FIG. 6

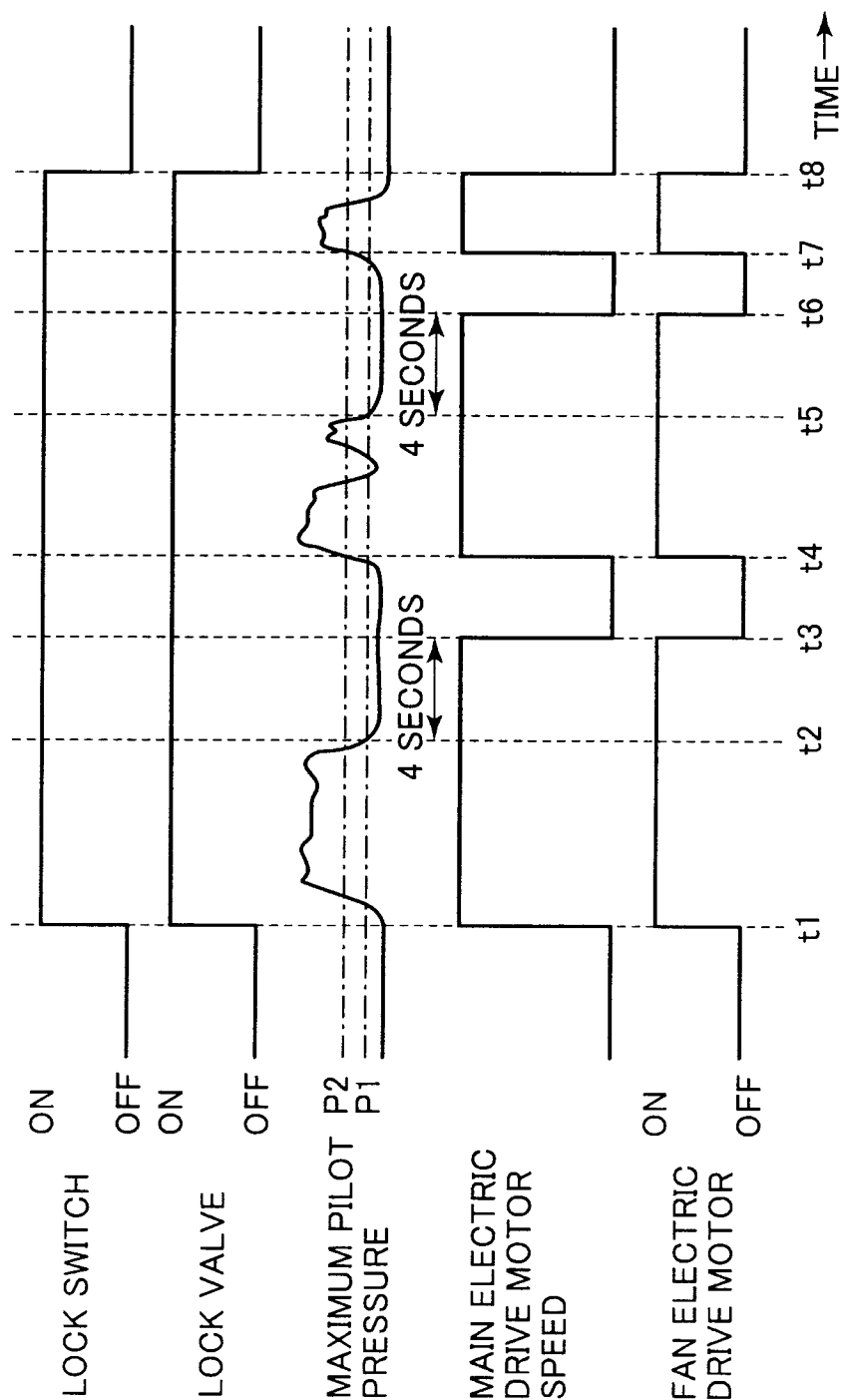


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FIG. 7



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