

when the second time difference is less than the second reference time period:

searching a state of the alarm clock within the second reference time period from the target alarm clock activation time; and

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determining, by the mobile terminal, the startup-completion time to be the actual alarm clock activation time.

20. The method according to claim 11, [wherein] *further comprising:*

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*operating, by the mobile terminal [is operated], the method under an Android™ operation system.*

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