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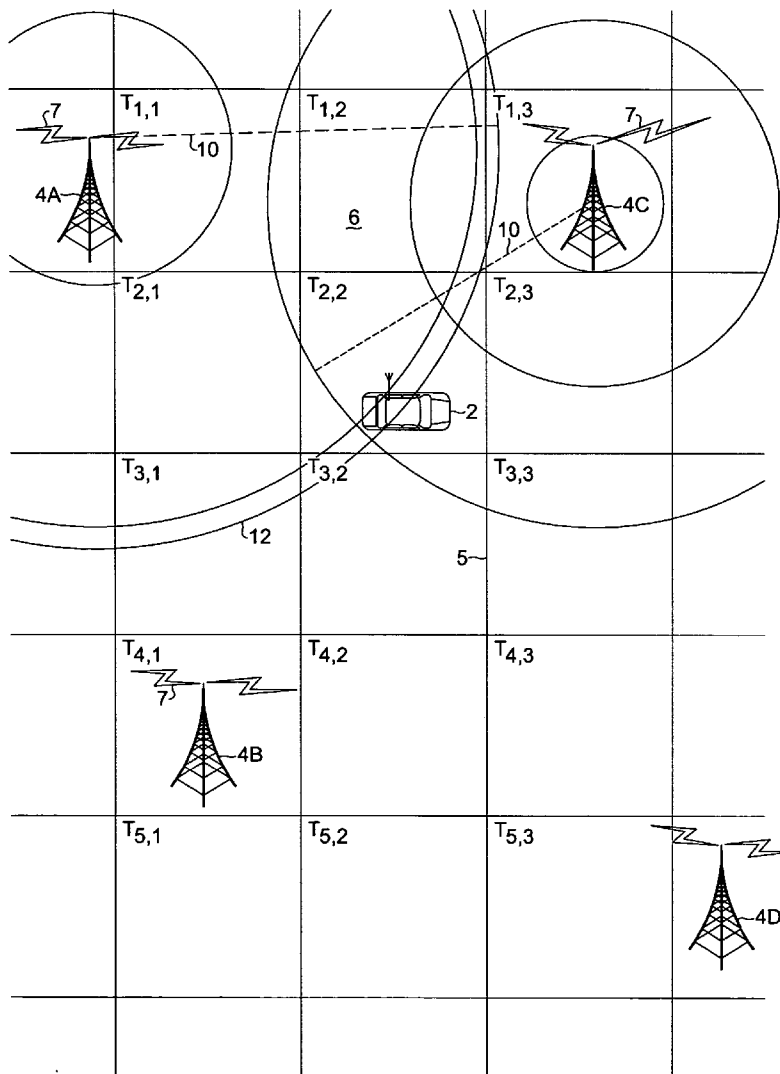(76) Inventor: **Leonid Sheynblat**, Hillsborough, CA (US)

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(57) **ABSTRACT**

A system, method and device are provided for determining the position of a mobile station through the identification of an approximate position of the mobile station. Thereafter received signal strength (RSSI) fingerprint data for the approximate position is requested and retrieved. The fingerprint data and received signal strength data collected at the mobile station are compared in connection with fixing the position of the mobile station.
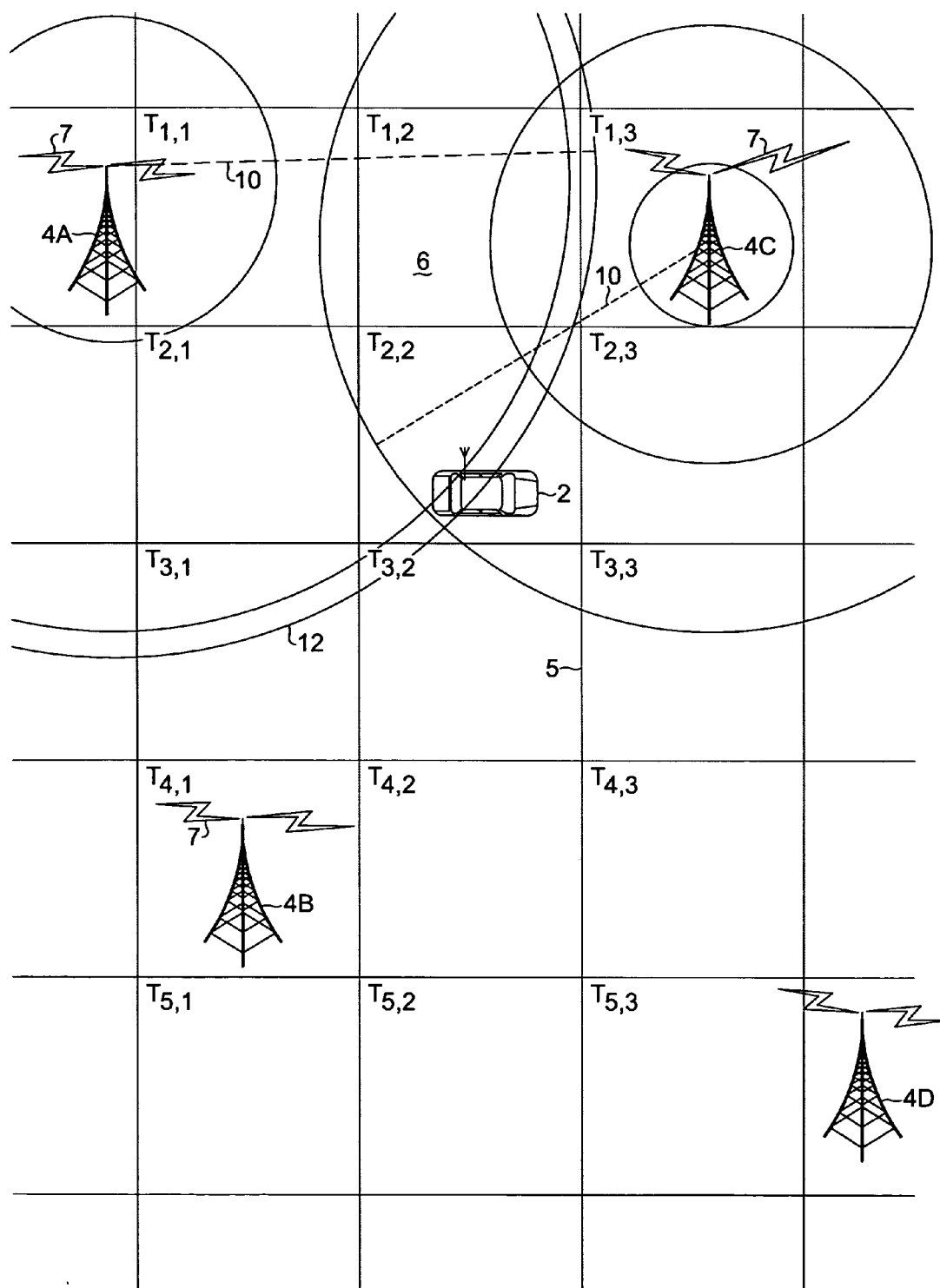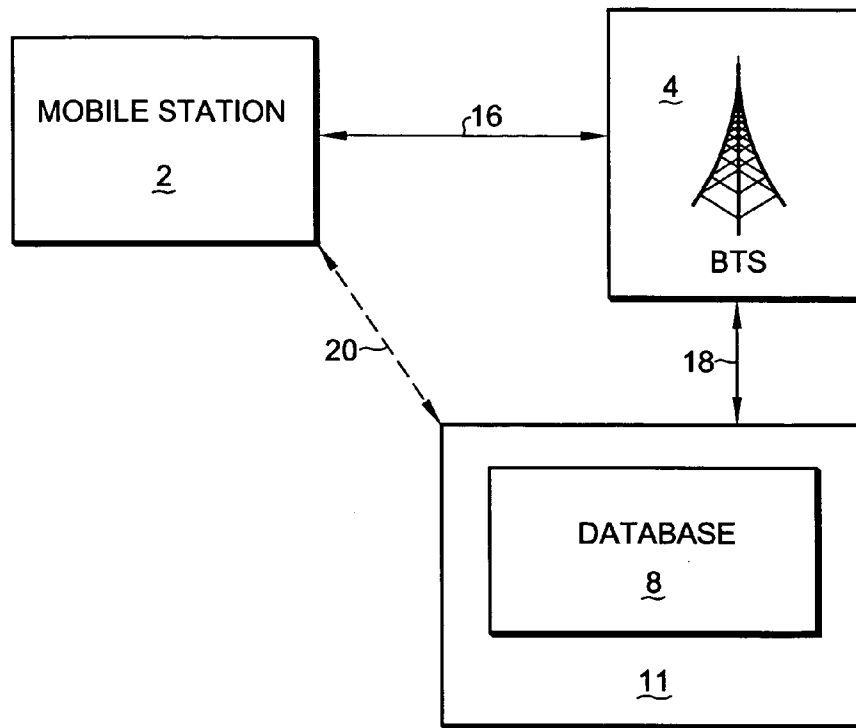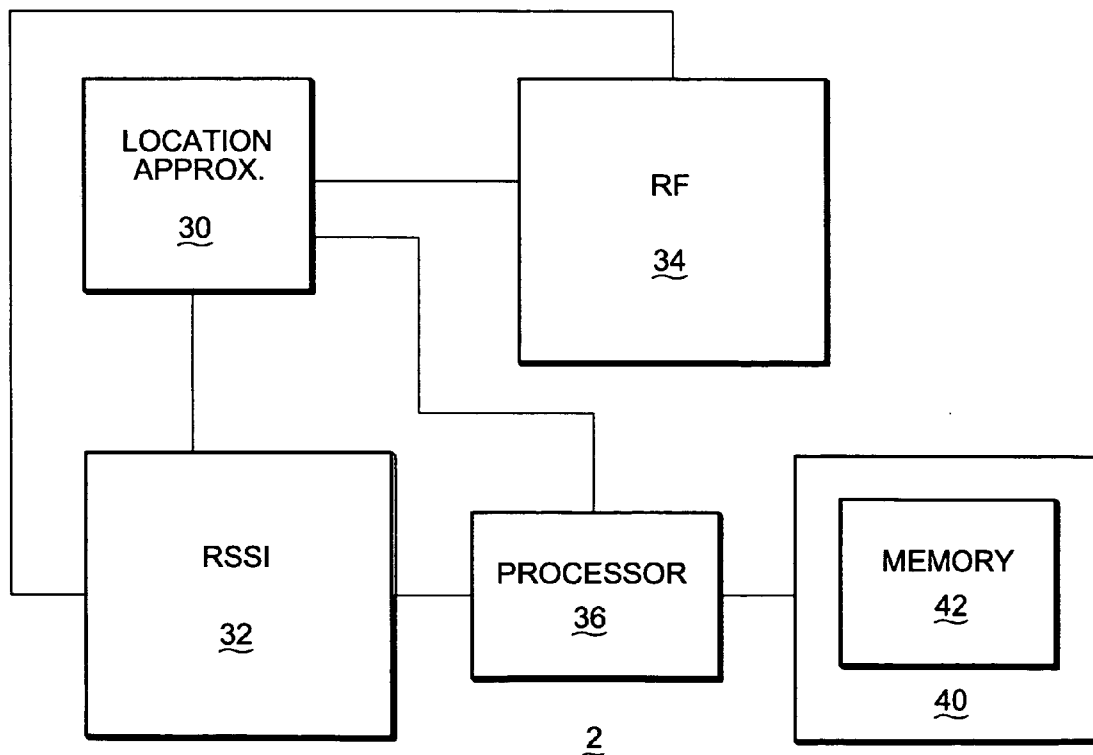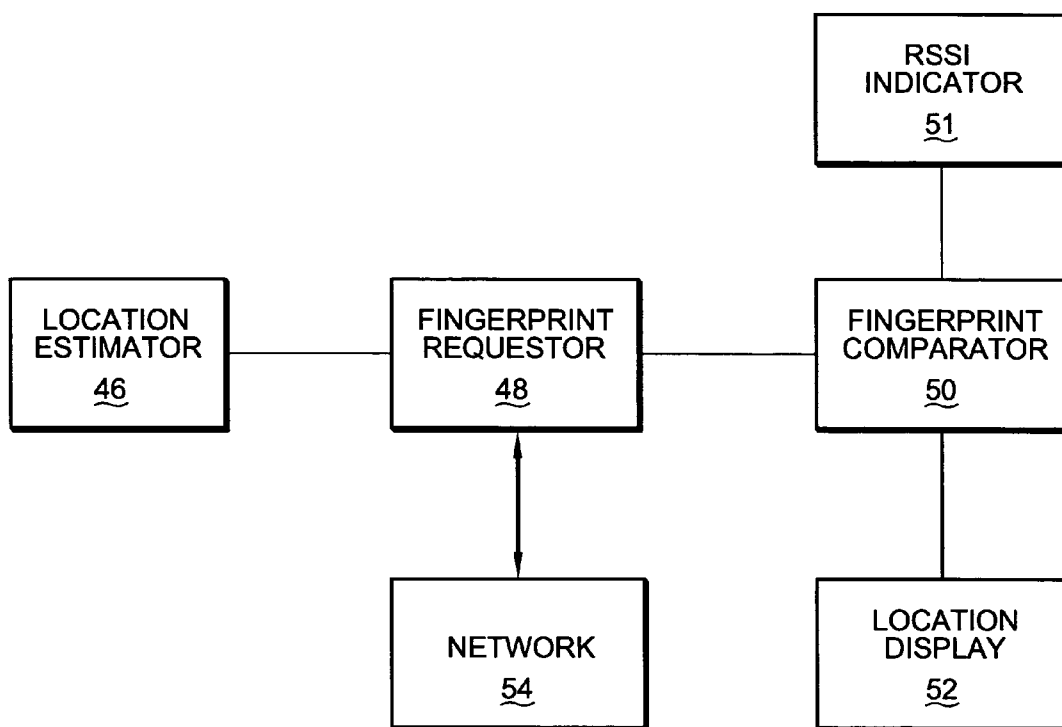
Fig. 1

Fig. 2

Fig. 3

Fig. 4

8

Fig. 5

76

START

60

COLLECT RSSI
DATA AT MS

62

DETERMINE APPROXIMATE
MS LOCATION

64

SELECT LOOK-UP TOKEN ON
THE BASIS OF APPROXIMATE
MS LOCATION

66

COMPARE LOOK-UP TOKEN
DATA TO RSSI
DATA COLLECTED

68

FIND CORRELATION OF
RSSI DATA WITH
LOOK-UP DATA

70

SELECT TOKEN WITH
HIGHEST CORRELATION

72

CORRELATION
ABOVE A SET
THRESHOLD
?

NO   YES

74

SELECT
POSITION

Fig. 6

DOCKET ALARM
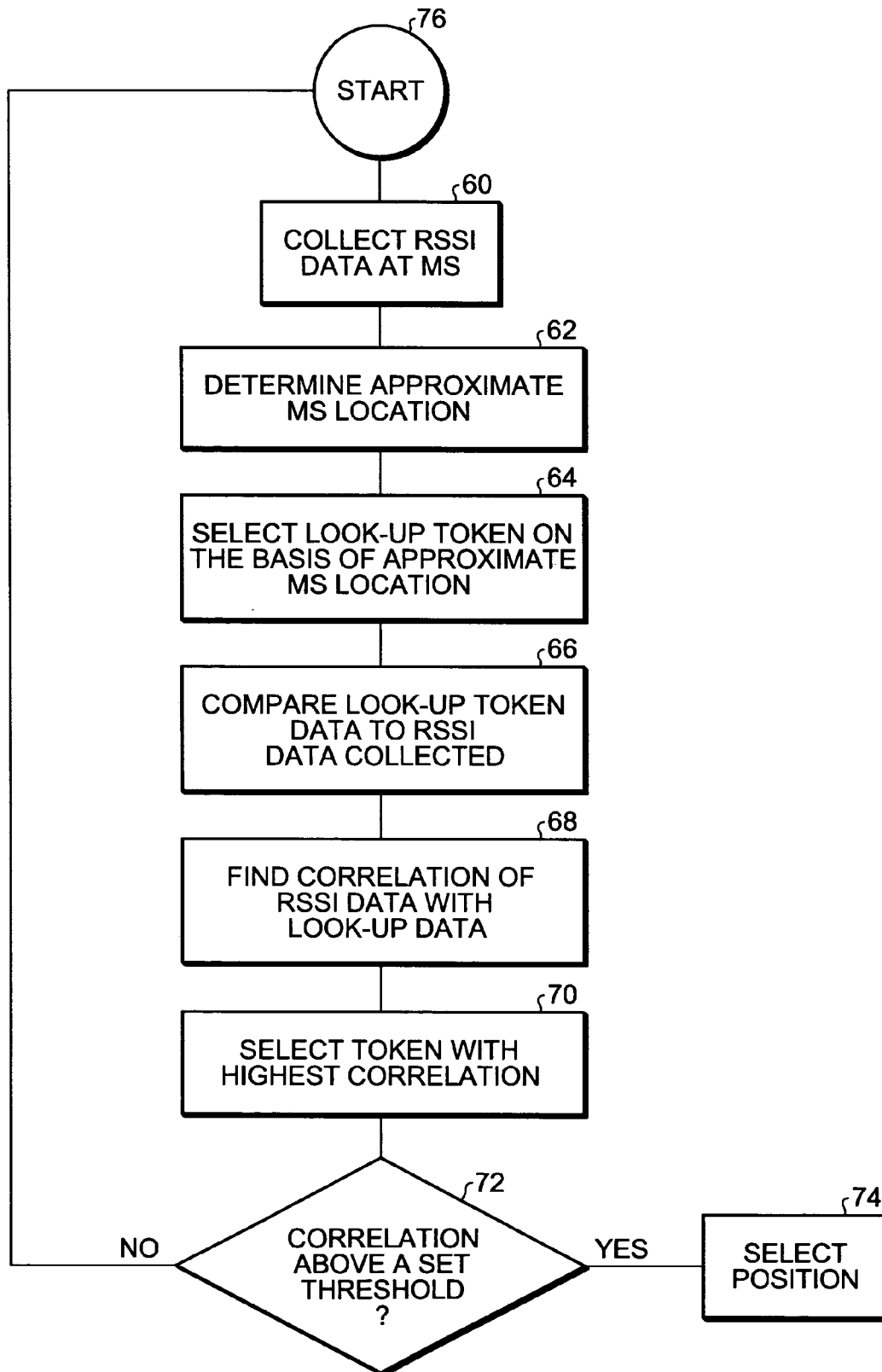
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