



United States Patent [19]

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Kniffin et al.

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- [54] **SECURE ENTRY SYSTEM WITH RADIO COMMUNICATIONS**
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- [21] Appl. No.: **07/819,345**
- [22] Filed: **Jan. 9, 1992**
- [51] Int. Cl.⁷ **H04Q 1/00**
- [52] U.S. Cl. **340/825.31; 340/825.44; 340/825.69; 379/103**
- [58] Field of Search 340/825.31, 825.32, 340/825.33, 825.34, 825.3, 825.54, 825.69, 825.72, 825.44, 311.1; 455/38, 1, 344; 379/103, 102, 105; 235/382

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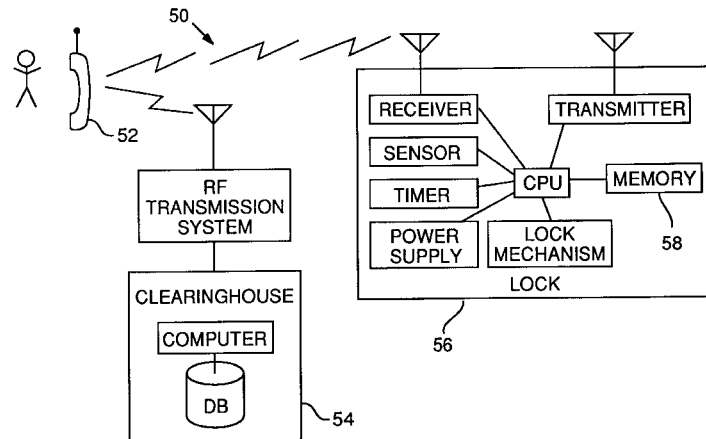
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[57] ABSTRACT

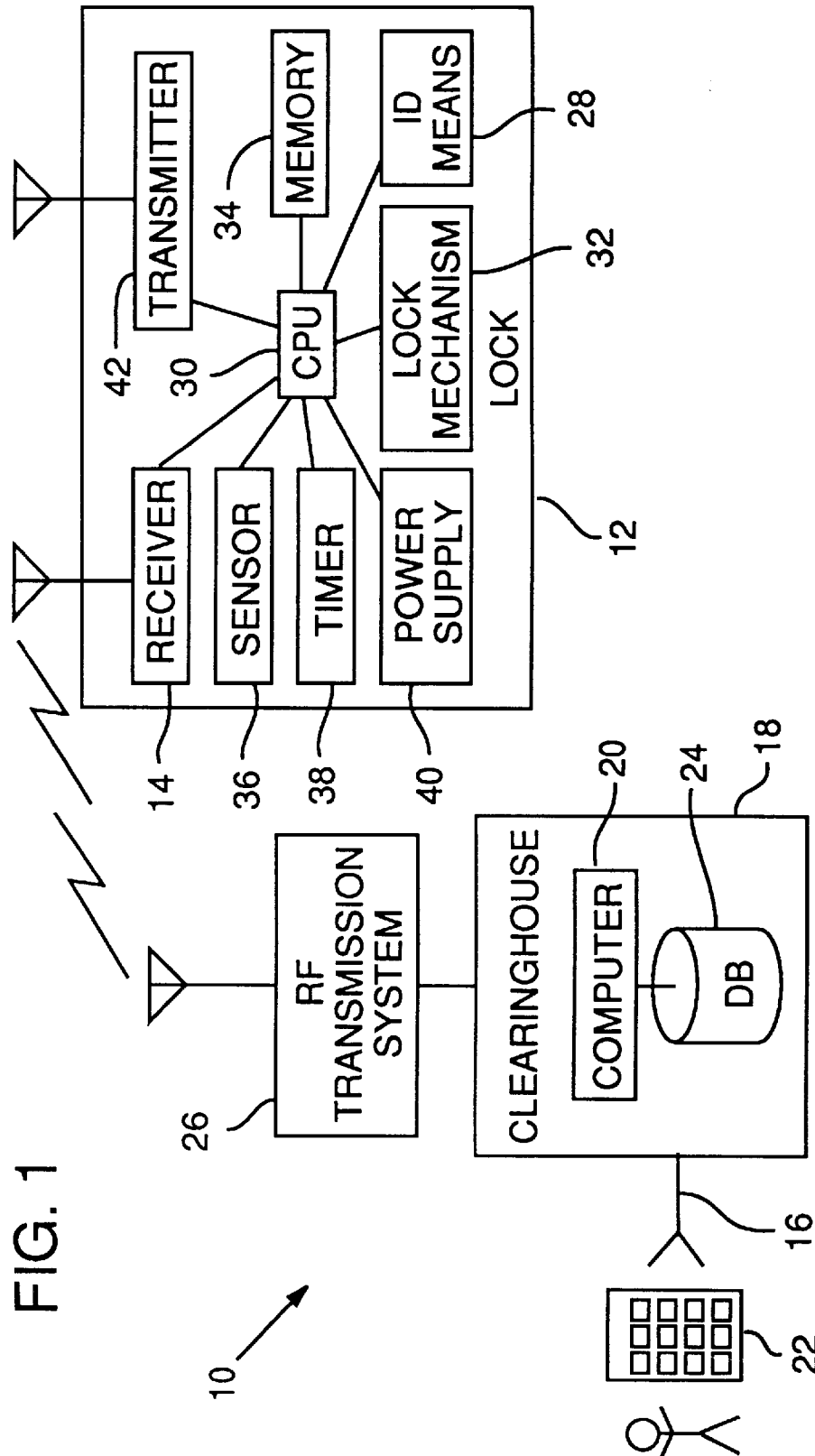
A secure entry system makes use of radio transmissions to communicate with locks, keys, and related components throughout the system. The radio transmissions can be made using a paging system, a cellular telephone system, or any other RF carrier. Some embodiments employ a cellular telephone in lieu of an electronic key. Others integrate a paging receiver within an electronic key to provide a unit with dual functionality. The system is illustrated with reference to exemplary applications in the industrial site security, real estate lockbox, and transportation fields.

31 Claims, 4 Drawing Sheets



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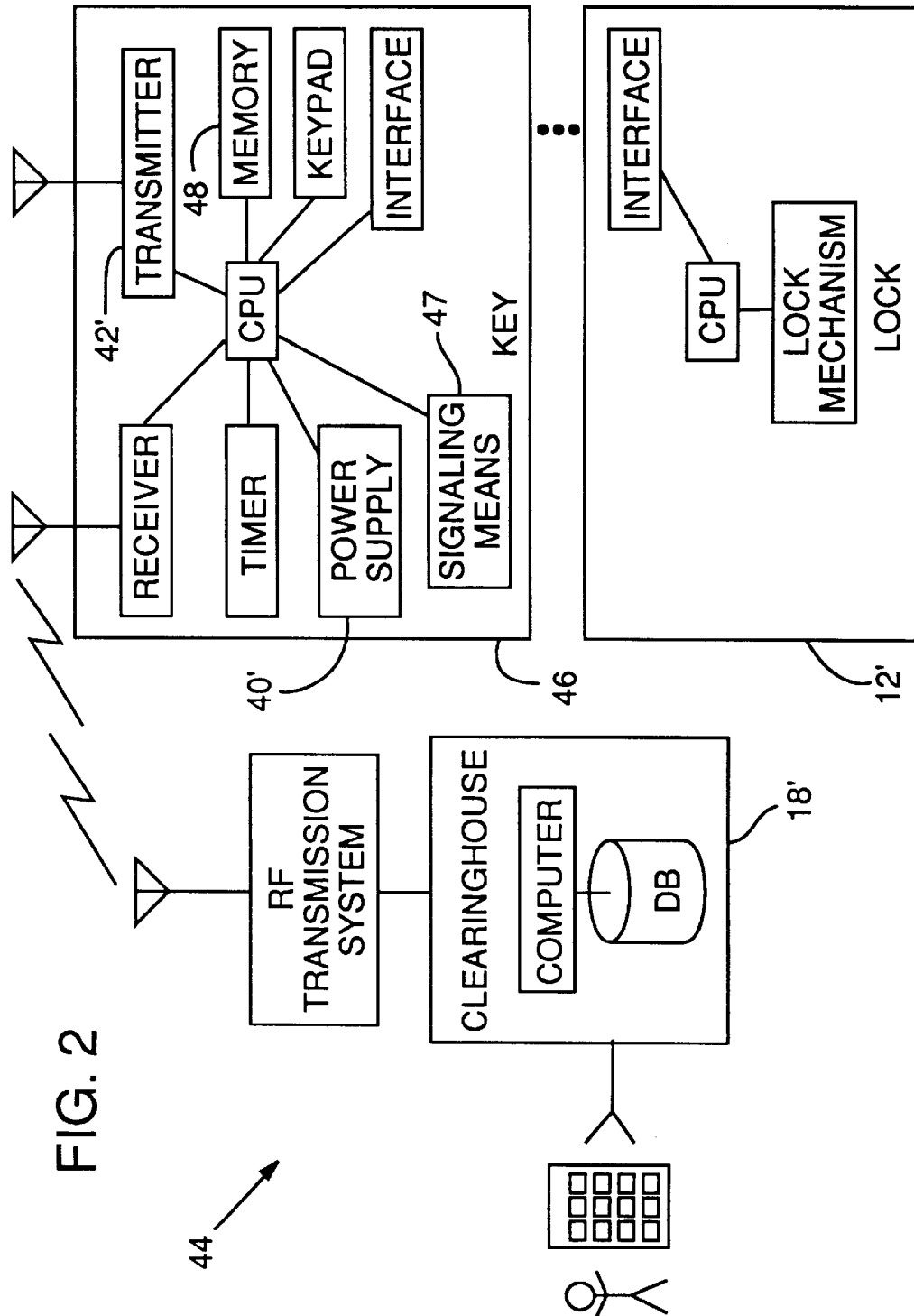
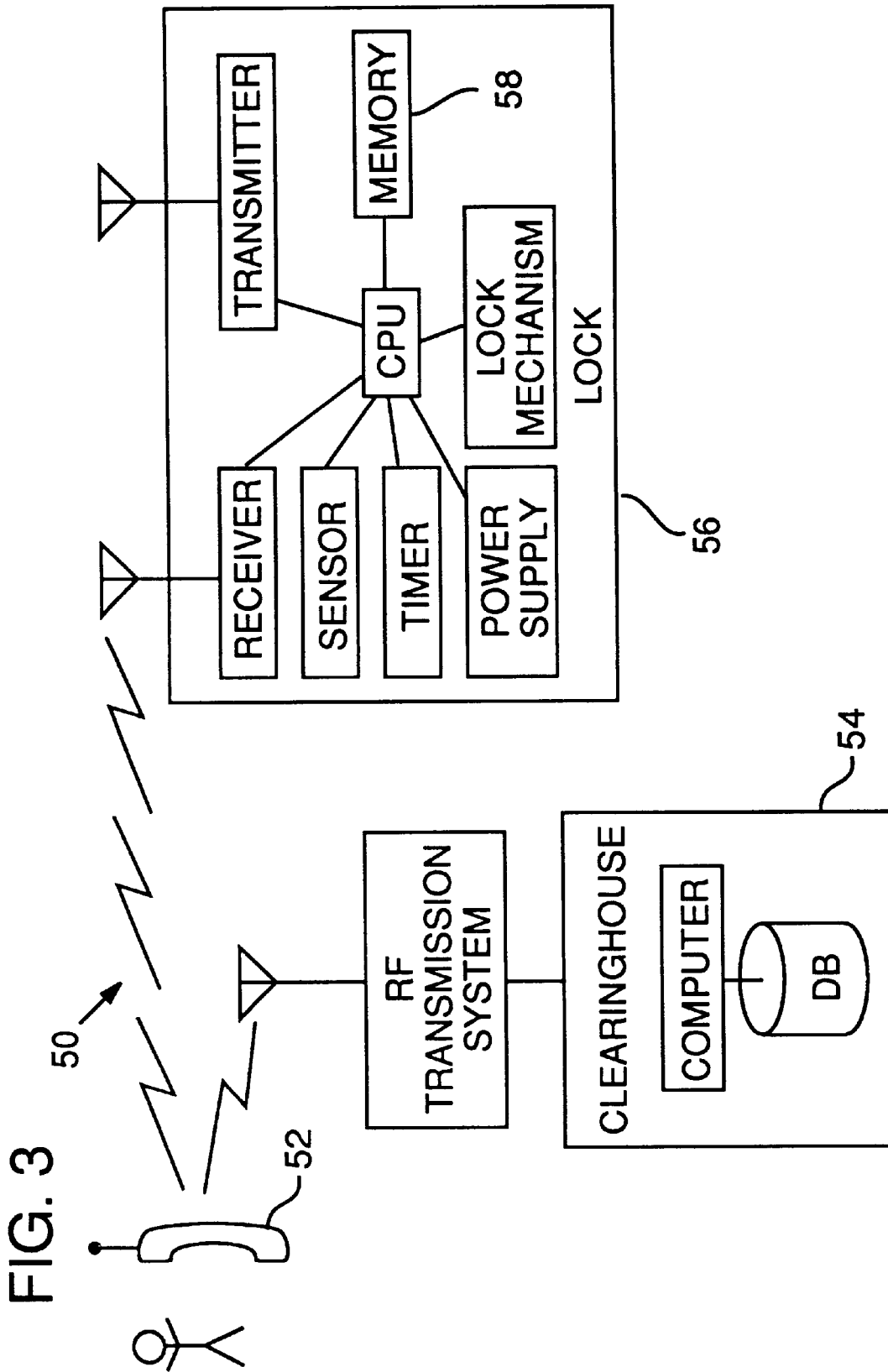


FIG. 2



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