



[54] METHOD AND APPARATUS FOR ORGANIZING AND RECOVERING INFORMATION COMMUNICATED IN A RADIO COMMUNICATION SYSTEM

[75] Inventors: Douglas Irvin Ayerst, Delray Beach; Malik J. Khan, Boynton Beach; Michael James Rudowicz, Delray Beach, all of Fla.

[73] Assignee: Motorola, Inc., Schaumburg, Ill.

[*] Notice: The term of this patent shall not extend beyond the expiration date of Pat. No. 5,644,568.

[21] Appl. No.: 752,078

[22] Filed: Nov. 19, 1996

Related U.S. Application Data

[63] Continuation of Ser. No. 404,698, Mar. 15, 1995, Pat. No. 5,644,568.

[51] Int. Cl.⁶ H04J 3/26

[52] U.S. Cl. 370/311; 370/312; 370/432; 370/468; 370/471; 370/522; 340/825.47; 455/343

[58] Field of Search 370/310, 312, 370/313, 314, 328, 329, 336, 337, 345, 346, 347, 349, 350, 431, 432, 442, 443, 444, 450, 458, 459, 465, 468, 470, 471, 472, 473, 474, 475, 476, 478, 509, 510, 512, 311; 340/825.06, 825.07, 825.08, 825.2, 825.21, 825.44, 825.47, 825.52, 825.53; 455/32.1, 31.1, 38.1, 38.3, 343

[56] References Cited

U.S. PATENT DOCUMENTS

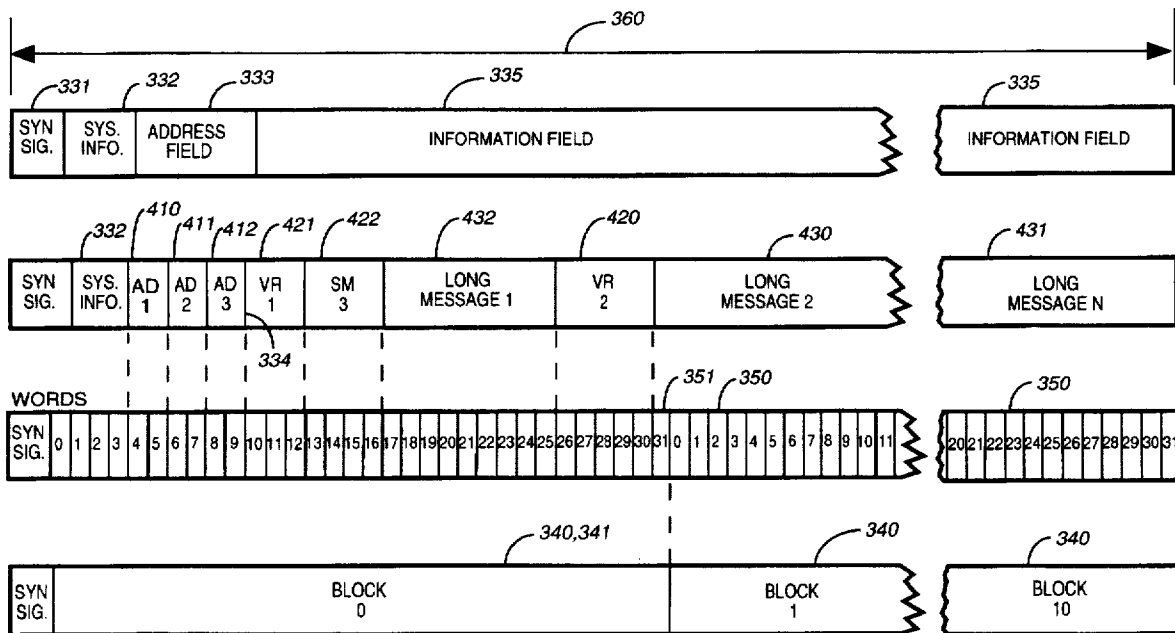
4,427,980	1/1984	Fennell et al.	340/825.47
4,519,068	5/1985	Krebs et al.	370/471
4,755,816	7/1988	DeLuca .	
4,860,003	8/1989	DeLuca et al.	370/349
5,128,665	7/1992	DeLuca et al.	370/475
5,282,205	1/1994	Kuznicki	370/429
5,311,516	5/1994	Kuznicki et al.	370/349

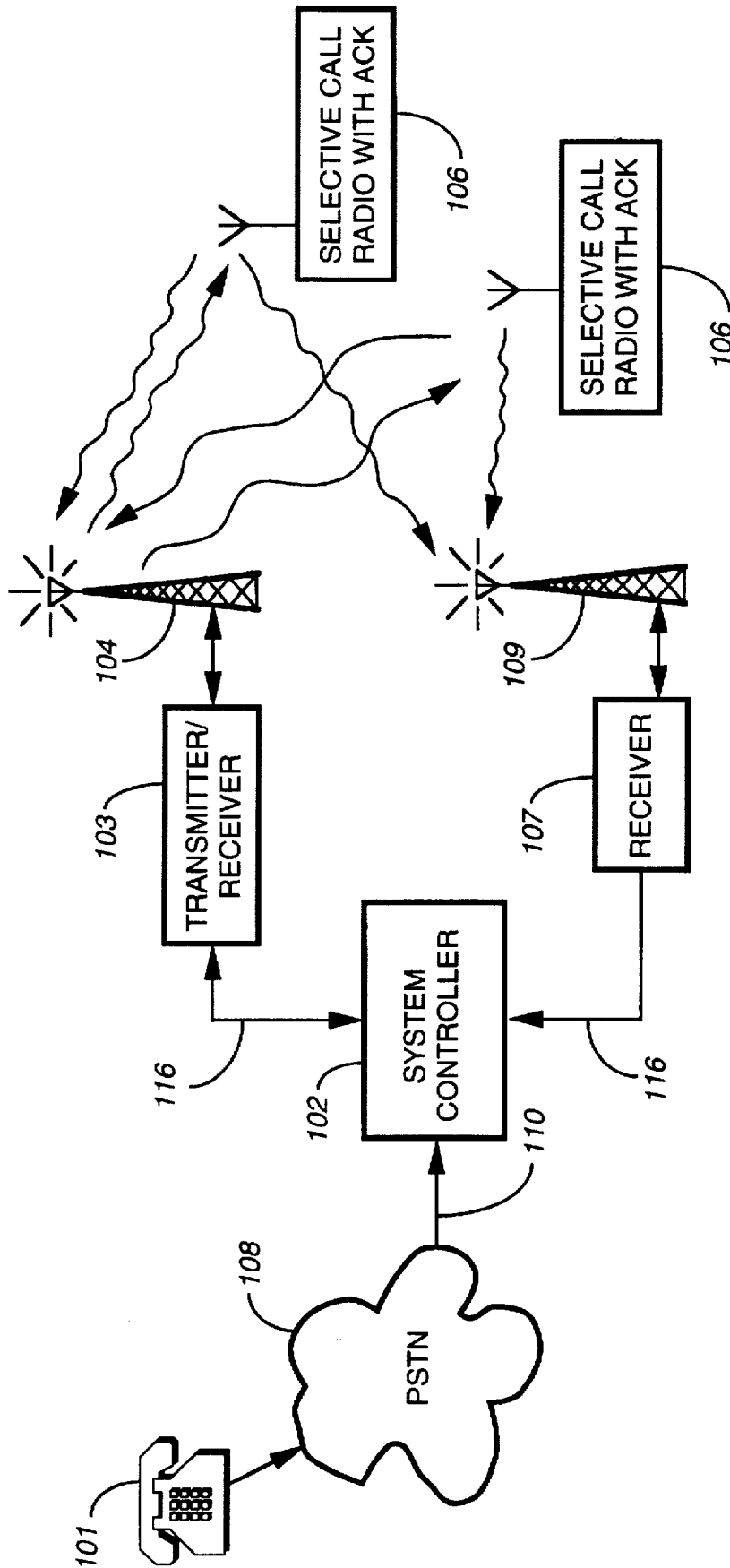
Primary Examiner—Wellington Chin
Assistant Examiner—Huy D. Vu
Attorney, Agent, or Firm—James A. Lamb

[57] ABSTRACT

A system controller (102) generates and transmits a radio signal having long messages in data frames (370), and short and long messages in control frames (360). A set of selective call radio addresses is included at the beginning of a control frame (360), each selective call radio address including a subvector which indicates the starting position of a short message or a vector packet within the control frame (360). Vector packets indicate starting positions of long messages within the control frame (360), within other control frames (360), and within data frames (370). A selective call radio (106) receives the radio signal and recovers and processes the short and long messages, using the subvectors and vectors to identify the positions of the short and long messages.

17 Claims, 9 Drawing Sheets





100

FIG. 1

Rembrandt Wireless

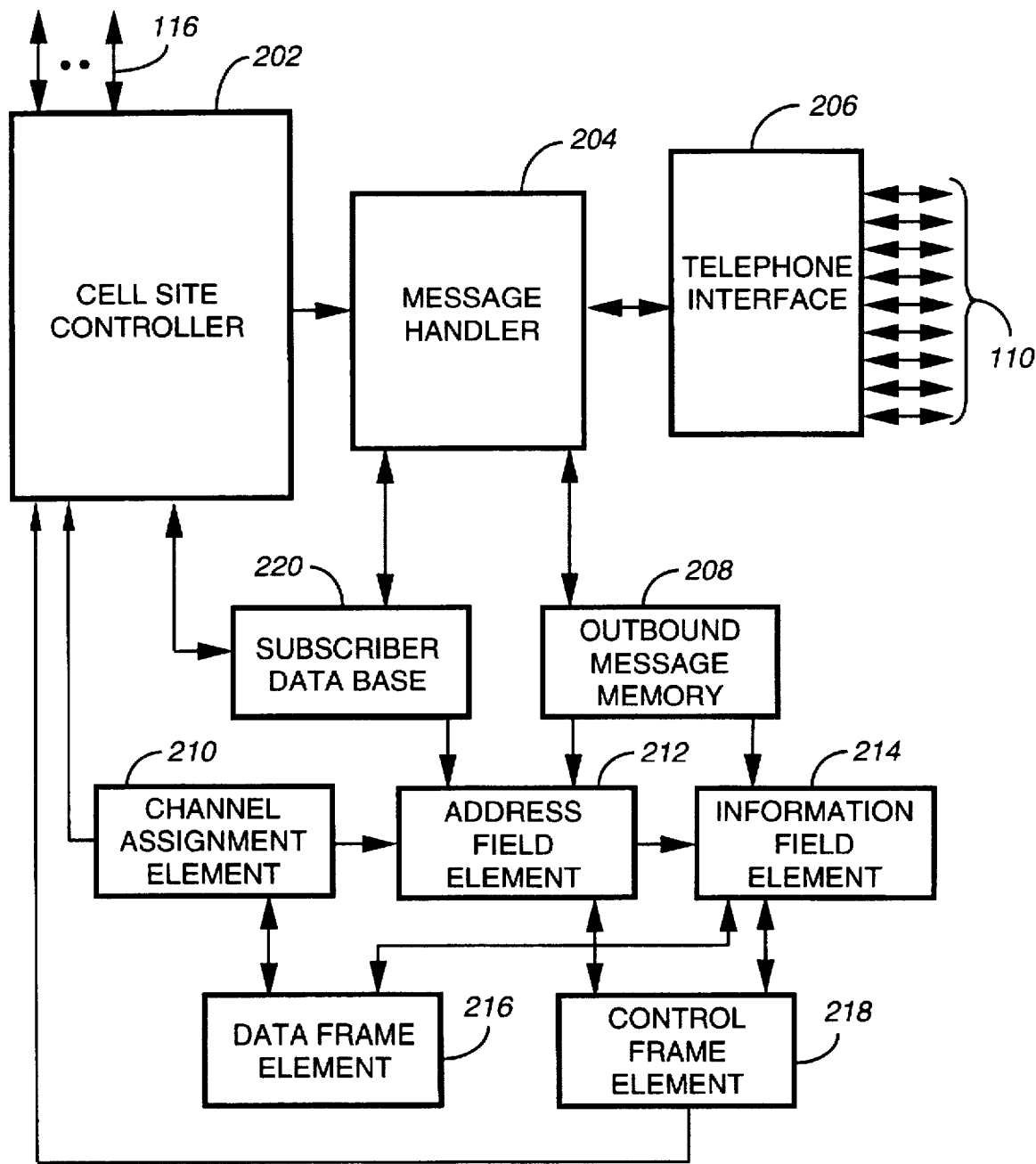


FIG. 2 ¹⁰²

Rembrandt Wireless

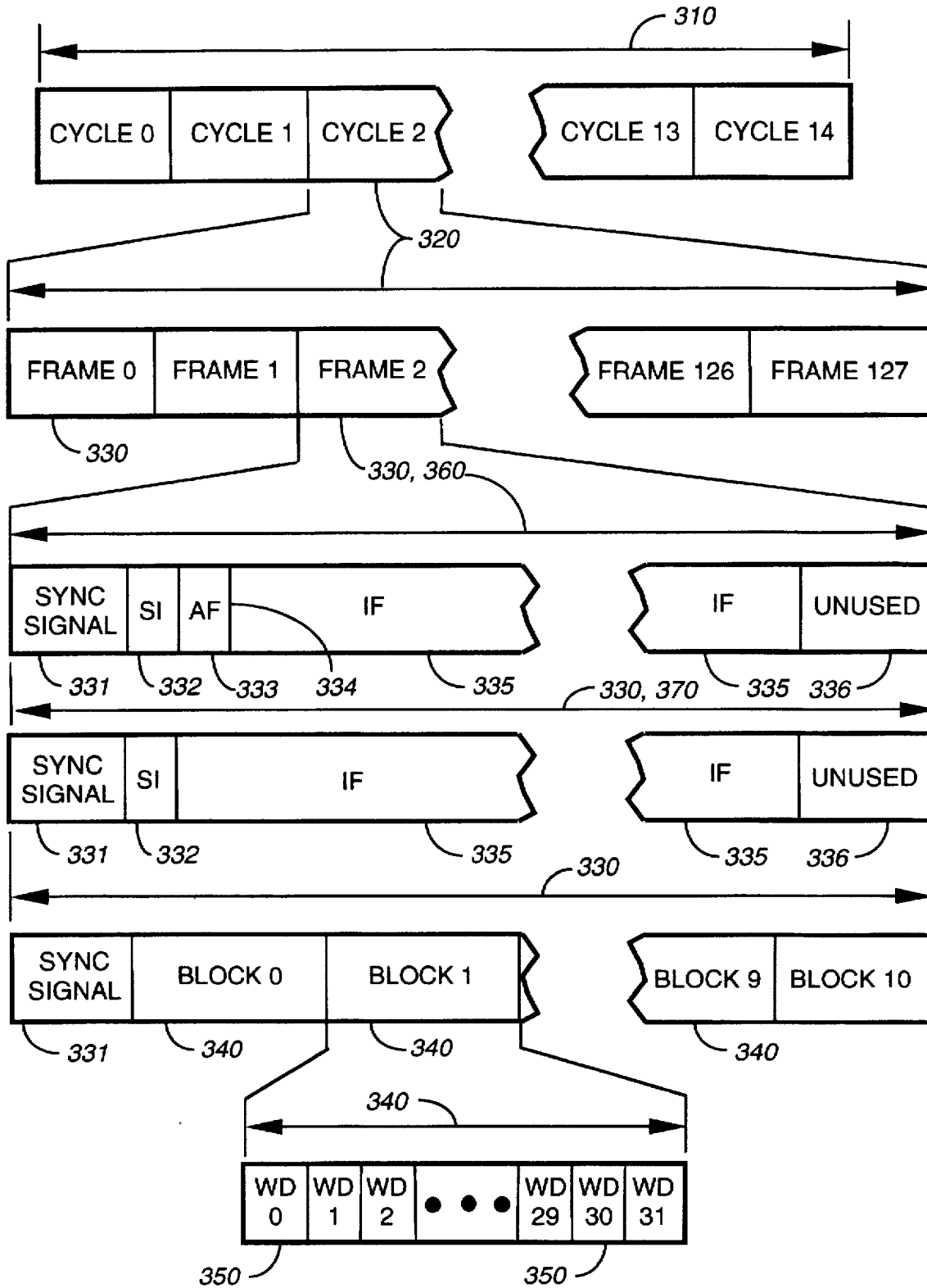
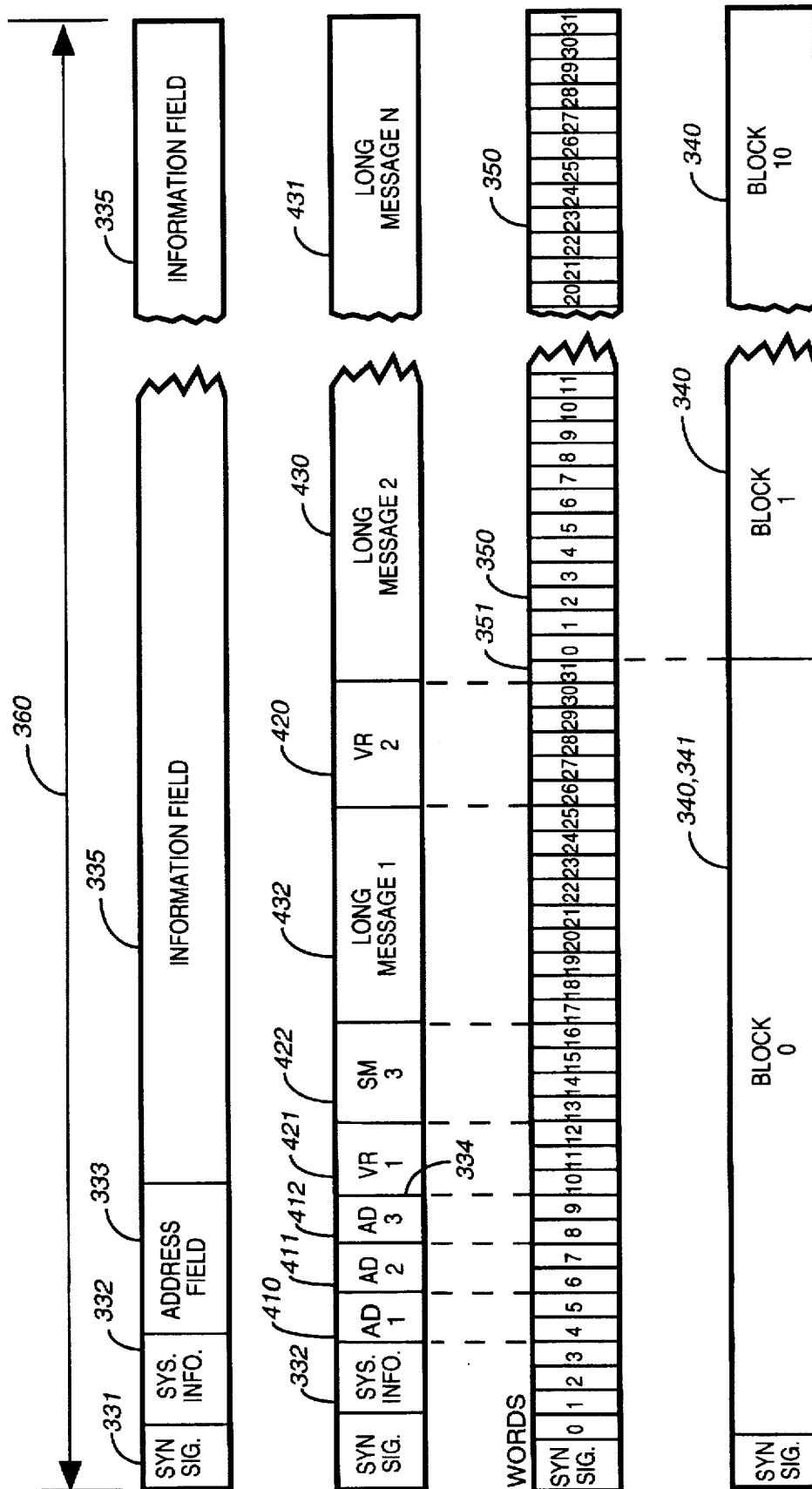


FIG. 3

Rembrandt Wireless



360

FIG. 4

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.