

[54] **KEY TELEPHONE STATION SET CIRCUIT** 3,906,168 9/1975 McEdwen 179/99
 3,935,396 1/1976 Barsellotti et al. 179/99
 [75] **Inventors:** Donald Dean Huizinga, Indianapolis; 3,946,146 3/1976 Brown et al. 179/99
 Edward William Underhill, 3,973,085 8/1976 Shiff 179/99
 Knightstown; James Arthur 3,991,282 11/1976 Feil 179/99
 Whitcomb, Indianapolis, all of Ind.

[73] **Assignee:** Bell Telephone Laboratories, Incorporated, Murray Hill, N.J.

[21] **Appl. No.:** 735,991

[22] **Filed:** Oct. 27, 1976

[51] **Int. Cl.²** H04Q 5/18

[52] **U.S. Cl.** 179/99; 179/84 L;
 179/84 T

[58] **Field of Search** 179/99, 18 J, 18 F,
 179/18 FA, 84 T, 84 L

[56] **References Cited**

U.S. PATENT DOCUMENTS

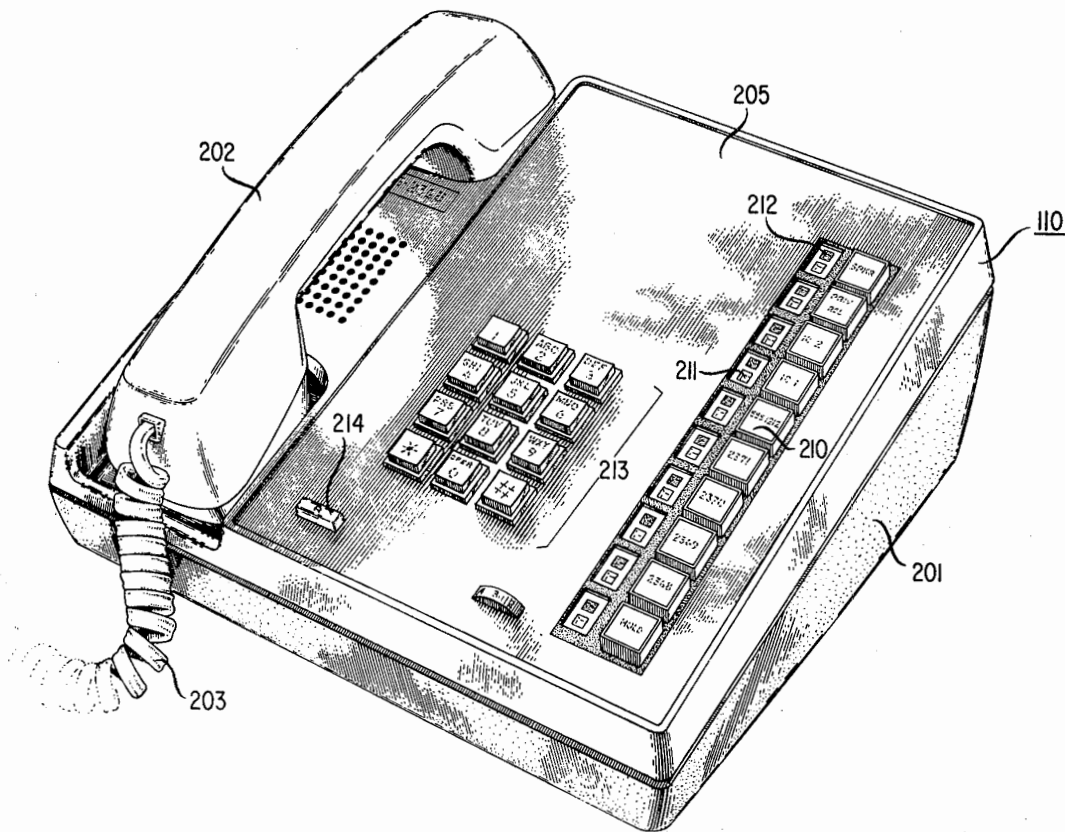
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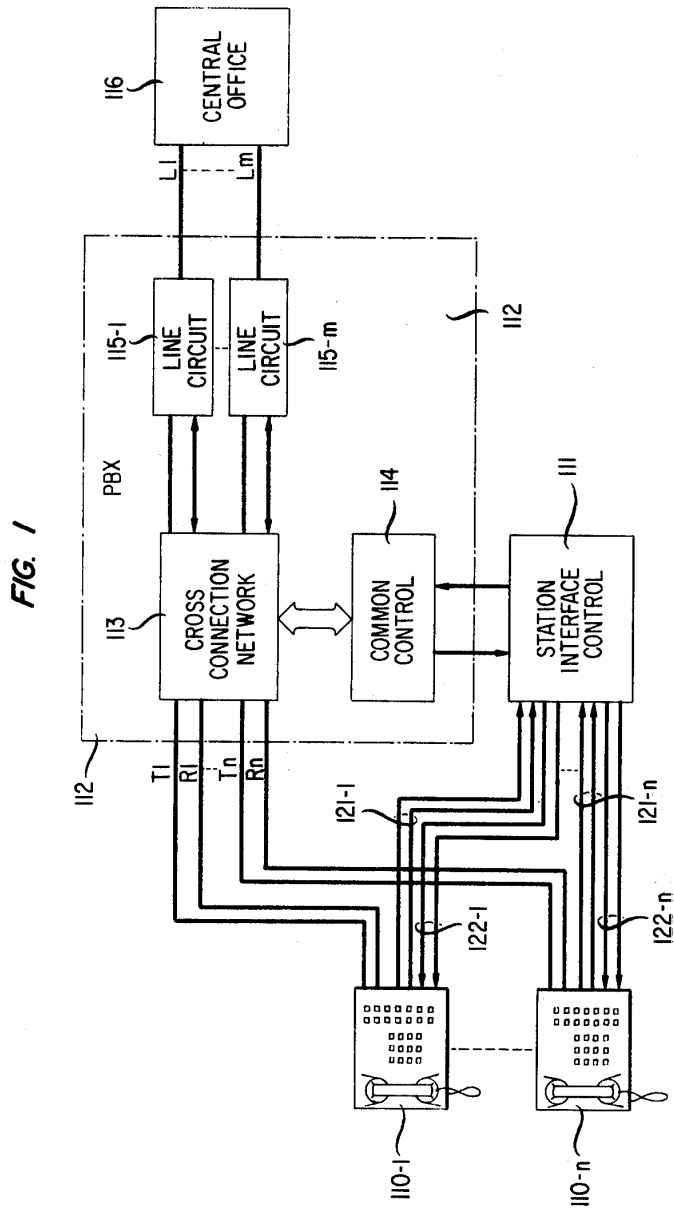
Primary Examiner—Kathleen H. Claffy
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Attorney, Agent, or Firm—John W. Fisher

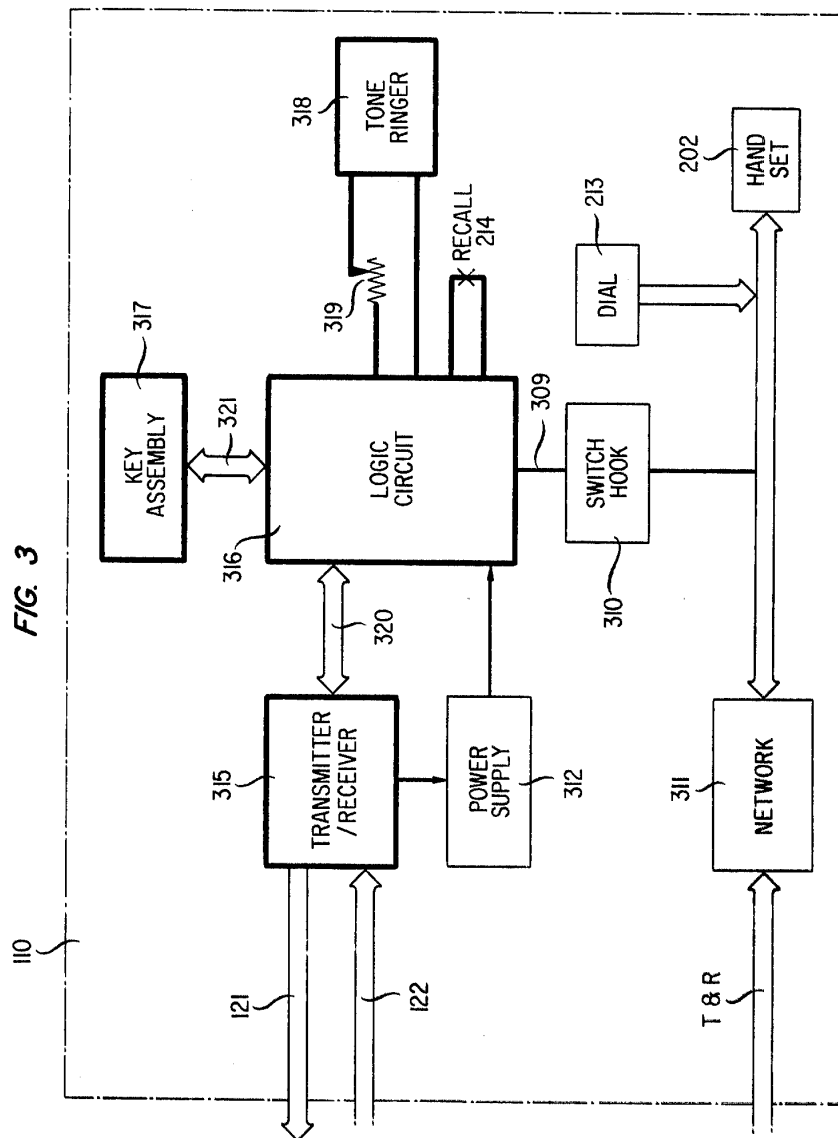
[57] **ABSTRACT**

An electronic key telephone station set includes a plurality of nonlocking line selection buttons. Adjacent each button is a pair of light emitting diode lamps, one for indicating which line selection button has been actuated and one for indicating which ones of other lines having an appearance on the station set are in use. Digital data coupled to and from the station set control the activation of the indicating lamps as well as the type of alerting signal generated to indicate an incoming call. Numerous other features may be advantageously implemented under data stream control.

16 Claims, 15 Drawing Figures







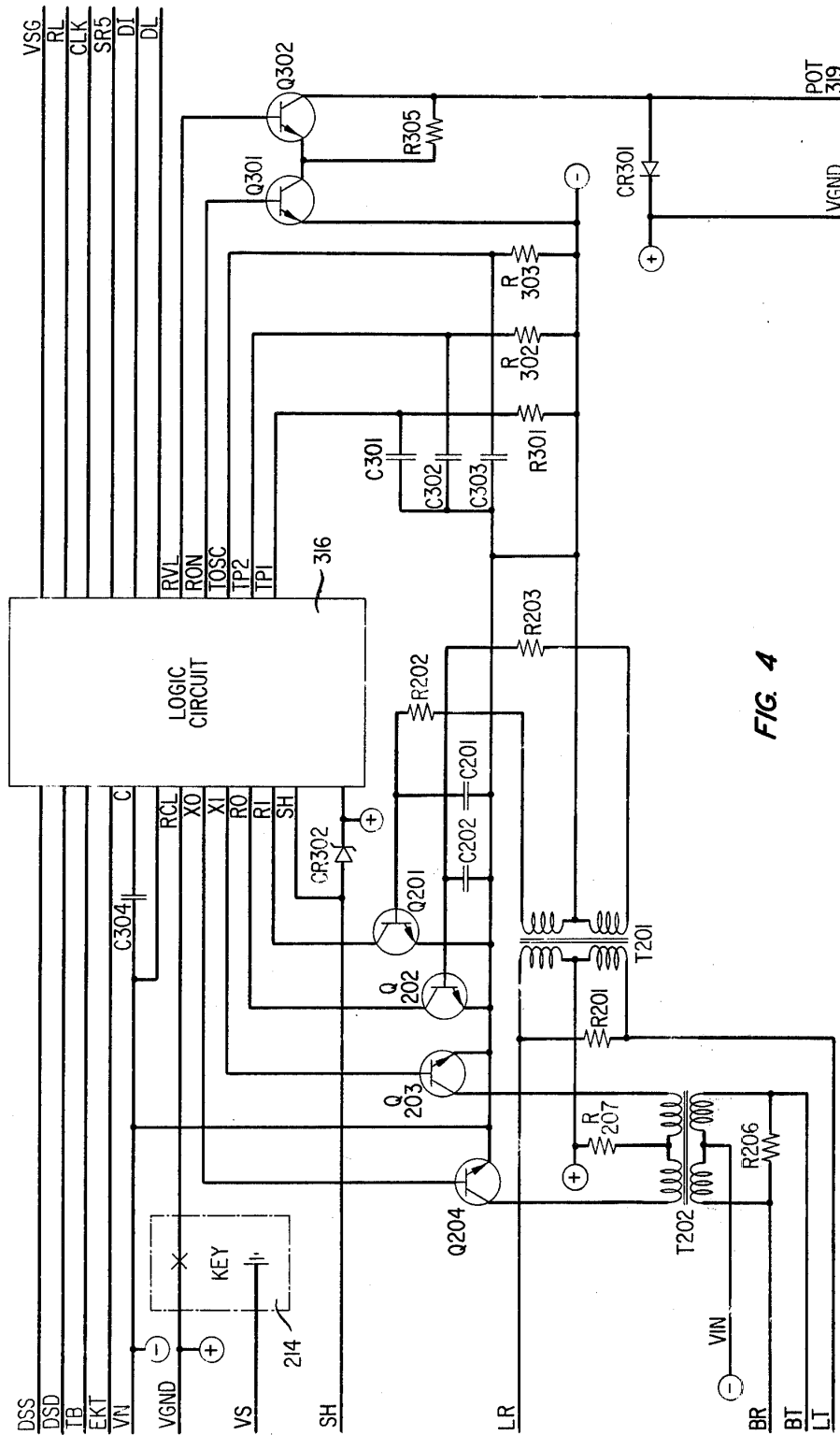


FIG. 4

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