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(71) Applicant: TELEFONAKTIEBOLAGET LM ERICSSON (publ) [SE/SE]; S-126 25 Stockholm (SE).			
(72) Inventor: BRUHN, Stefan; Thumenbergerweg 38, D-90491 Nürnberg (DE).		Published <i>With international search report.</i>	
(74) Agent: ERICSSON RADIO SYSTEMS AB; Patent Support/Ericsson Research, S-164 80 Stockholm (SE).			

The diagram illustrates a multi-mode communication system 116, which includes the following components and signal flows:

- 120 (RX Data Processor):** Receives *RX_data* and outputs *NR_{RX}*, *PAYLOAD_{RX}*, and *HR_{RX}*.
- 122 (MODE 1 DECODER):** Receives *NR_{RX}* and outputs to the **124**.
- 124 (MULTI-MODE DECODER):** Receives *PAYLOAD_{RX}* and *HR_{RX}*, and outputs *SPEECH*.
- 126 (MODE R DECODER):** Receives *HR_{RX}* and outputs to the **134**.
- 134 (MEASUREMENTS (CODEC MODE REQUEST GENERATION)):** Receives input from the **126** and outputs to the **130**.
- 130 (MULTI-MODE ENCODER):** Receives *SPEECH* and *NR_{TX}*, and outputs *PAYLOAD_{TX}* and *NR_{TX}*.
- 132 (MODE ENCODER):** Receives *NR_{TX}* and outputs to the **130**.
- 136 (TX Data Processor):** Receives *PAYLOAD_{TX}* and *NR_{TX}*, and outputs *TX_data*.
- 138 (MODE CONTROL):** Receives *SPEECH* and outputs to the **132**.