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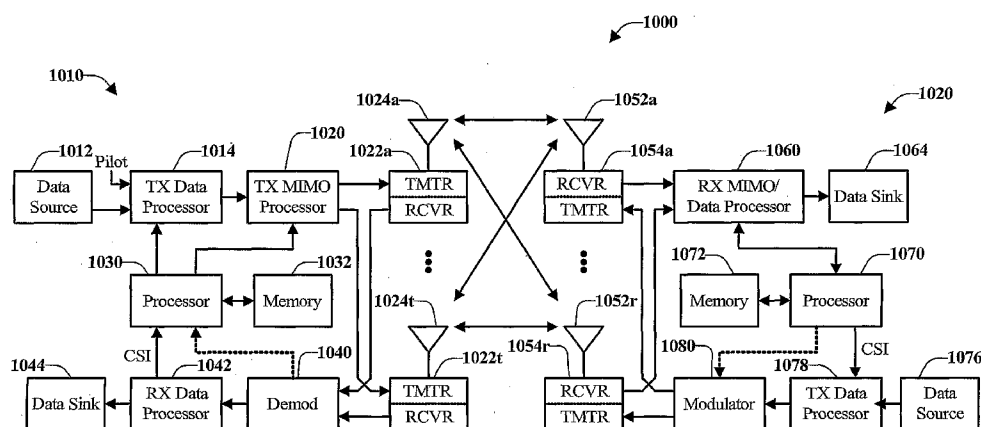
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- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

[Continued on next page]

(54) Title: TRANSMISSION MODE SELECTION, PRECODING AND SDMA SUPPORT



(57) Abstract: Embodiments are described in connection with enhancing performance in a wireless communication system using codebook technology. According to an embodiment is a method for enhancing performance in a wireless communication environment. The method can include receiving a user preference for a transmission mode, associating the user preference with an entry or entries in a codebook, and assigning the user to a transmission mode corresponding to the entry or entries. The transmission mode can be one of a precoding, space division multiple access (SDMA), SDMA precoding, multiple input multiple output (MIMO), MIMO precoding, MEVIO- SDMA and a diversity. Each entry can correspond to a transmission mode.

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