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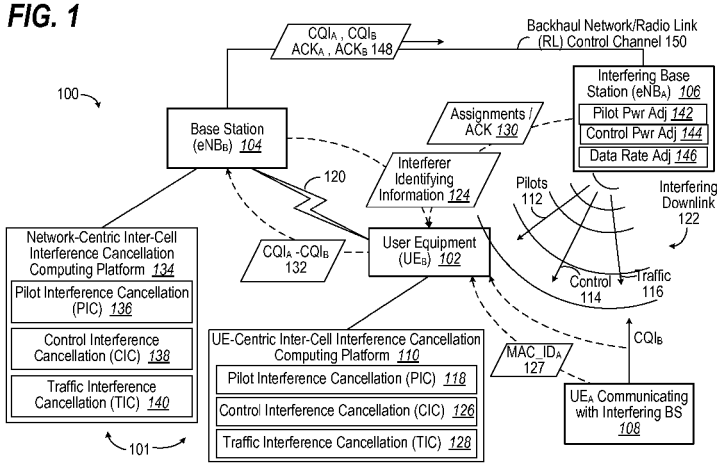
— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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— *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*

(54) **Title**: INTER-CELL INTERFERENCE CANCELLATION FRAMEWORK

FIG. 1



(57) **Abstract**: Communication techniques enable efficient communication to an UE (User Equipment) that is subject to a dominant interference signal that is transmitted by a different base station. Disclosed interference cancellation techniques, both UE-centric and network-centric, are suitable to this situation. These techniques are particularly advantageous when undesirable or difficult to introduce changes in the physical (PHY) and medium access control (MAC) layers at the existing base stations. UE-centric framework refers to an approach largely implemented by UEs to include pico or femto cells. Network-centric framework closed-loop coordination between base stations and UEs mitigate interference thereby improving network performance. In particular, an interfering base-station can help a "victim" UE by adjusting downlink pilot and control power and to adjust traffic data rates responsive to information that the "victim" UEs provide, including information about the interfering link and performance of the cancellation itself sent over the air or using the backhaul.

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