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(54) **Title:** ENHANCED WIRELESS COVERAGE AND REDUCED BATTERY POWER CONSUMPTION

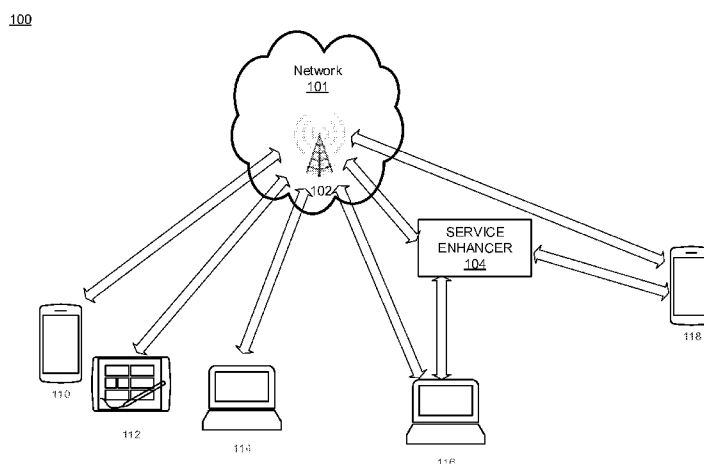


FIGURE 1

(57) **Abstract:** Embodiments of the invention describe a novel solution to enhance network service to devices with limited or no connectivity. Embodiments include network-aware nodes deployed by an end-user or operator which are configured by a network to achieve enhanced coverage, enhanced throughput, enhanced battery life, and mitigation of cell boundary experiences, etc. Embodiments provide these benefits to a specified or non-specified set of user equipment (e.g., neighboring user equipment). The service expansion terminal can be an available user equipment that is idle and that has been volunteered, assigned, or is a dedicated node with limited user interface and designed for carrying out enhanced coverage, enhanced throughput, enhanced battery life, and the mitigation of cell boundary experiences, etc. Embodiments may therefore provide low-cost, flexible deployment, and mobility thereby enabling boundaryless service.