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(54) **Title:** DETECTION OF LOAD BALANCING ACROSS NETWORK PATHS IN A COMMUNICATION NETWORK

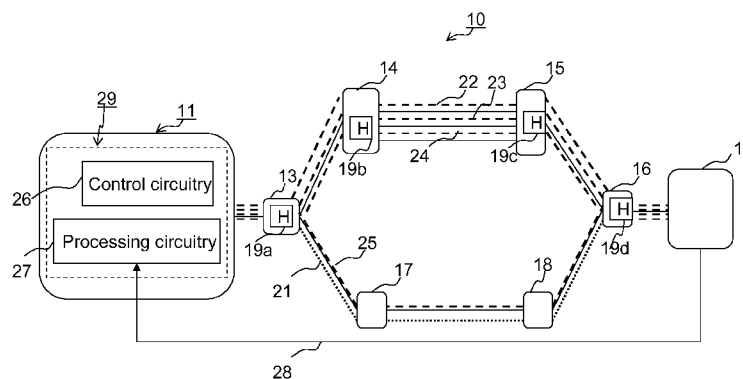


Fig. 2

(57) **Abstract:** The present disclosure relates to methods, a system and an apparatus for detection of load balancing in a packet-switched communication network (10). According to an embodiment a plurality of test sessions (22, 23, 24, 25) are initiated, which differ with respect to at least one associated parameter value for a source address, a destination address, a source port, a destination port, or a protocol. Load detection in the packet-switched communication network (10) can be detected based on differences between measurement results (28) of different test sessions (22, 23, 24, 25) of the plurality of test sessions. Situations where one network path is measured, while application traffic (21) takes another unmeasured network path can be avoided by setting-up multiple simultaneous test sessions (22, 23, 24, 25) with differing parameter values such that the test sessions are routed differently by any hash algorithms (19a, 19b, 19c, 19d) used for load balancing across network paths.