Multi-Source Common-View Disciplined Clock (MSCVDC) with fail-safe redundancy

Accurate time is an essential part of critical infrastructure systems, including the electric power grid, mobile phone networks, and stock exchanges. Typically, these rely heavily on GPS clocks, which are prone to several types of failures.

The MSCVDC receives the same radio signals received at NIST or other national timing laboratories, and applies frequency and time corrections obtained from the Internet to get sub-microsecond accuracy.

Go to NIST.gov/tpo for more information.

Lombardi, NIST, U. S. Patent 10,466,363 B2