DISK DRIVE SPINDLE SYNCHRONIZATION APPARATUS AND METHOD

ABSTRACT

A data storage disk drive array is synchronized using drives wherein each has an onboard oscillator assembly which is connected either for independent operation of each drive or synchronization of all or any selected drives of the array using a common or slave sync line that can supply an index signal to all or any portion of the drives of the array and is capable of using the oscillator assembly of any drive in the synchronized array as the source of the common precision index signal. The system can also be partitioned in subarrays with synchronization of the entire system, of individual subarrays or any mix of subarray combinations while retaining the capability for any drive of the system to function independent of the synchronization of any group of drives within the system.

Figure : 1