

MATERIAL INLINE QUALITY MANAGEMENT SYSTEM

ABSTRACT OF THE DISCLOSURE

Systems and methods are provided through which printed circuit board assemblies
5 (PCBAs) that share components that have a high rate of failure are identified. The
components are substantially similar components, such as components that are embodied
on a reel and/or components that were manufactured by the same manufacturer. The
identification (ID) of substantially similar components are captured, such as by scanning
a barcode ID of the substantially similar components, an ID of each printed circuit board
10 assembly (PCBA) is captured, such as by scanning a barcode ID of each PCBA. Later,
an association between the ID of each PCBA and the ID of the substantially similar
components is determined. PCBAs that share components that have a high rate of failure
are identified from the association. The association is used to identify PCBAs that are at
risk for sharing common failures.

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FIG. 3