

SSD ASSEMBLY SYSTEM HAVING BELT INDEX PALLET TRANSFER AND
METHOD THEREFOR

ABSTRACT

The present invention provides a Solid State Drive (SSD) assembly
5 system comprises a pallet for holding parts and components to be assembled; a two-
tier conveyor loop having an assembly track, a return lift, a return track and a
supplying lift arranged in that manner forming a loop for conveying the pallet over
the loop; a plurality of assembly stations disposes along the assembly track, each
having a picking arm for picking and placing and parts and components on the pallet,
10 and an assembly arm for securing the parts and components on the pallet. At the
end of the assembly track, the pallet is conveyed to the return lift, and the return lift
lifts the pallet to load onto the returning track, the returning track is movable in an
opposition direction from that of the assembly track to return the pallet to the start
of the assembly track through the supplying lift, thereby recycling the pallet
15 endlessly for loading and assembling parts and components along the assembly
track.

FIG. 1 for publication.