

ABSTRACT OF THE DISCLOSURE

A pallet transfer mechanism for allowing different transportation devices to hand over a pallet includes a placement device, an obstacle sensor, and a pallet sensor. The placement device has a plurality of brackets. The
5 obstacle sensor is disposed on one of the brackets and emits an obstacle sensing beam in a diagonal direction across the handover space toward another one of the diagonally disposed brackets. The obstacle sensing beam is used to determine whether there is an object within the handover
10 space. The pallet sensor is disposed on one of the brackets, and emits a pallet sensing beam in a horizontal direction toward another one of the adjacent brackets. The pallet sensing beam is used to determine whether the pallet is placed on the placement member.

15 FIG 2.