

ABSTRACT

This conveying and sorting apparatus, which can be utilized as an apparatus for conveying and sorting luggage in airports, comprises: a plurality of tilting conveyor units 10, 11 provided in a row in the conveying direction, and reflective photoelectric sensors 32, 33. The tilting conveyor units 10, 11 are supported above
5 a frame 16 so as to be able to swing to the left and right about a support shaft 7 which is parallel with the conveying direction, between a horizontal conveying orientation and a tilted orientation for ejecting the object being conveyed, by means of gravity, in the lateral direction with respect to the conveying direction.

10 The reflecting photoelectric sensors 32, 33 detect objects being conveyed (trays T) which pass between the tilting conveyor units 10, 11, by means of light beams which pass, in the vertical direction, between tilting conveyor units 10, 11 which adjoin one another in the conveying direction. The reflecting photoelectric sensors 32, 33 are attached to a support member 34 which is provided so as to surround the
15 periphery of the support shaft and which is supported by the frame 16.

(FIG. 8)