

ABSTRACT

This conveying and sorting apparatus which can be used as an apparatus for conveying and sorting luggage in airports comprises a plurality of a plurality of tilting conveyor units which are provided in a row in the conveying direction. Each tilting conveyor unit is constituted so as to be able to switched between a
6 horizontal conveying orientation and a tilted orientation for ejecting the object being conveyed, by means of gravity, laterally with respect to the conveying direction, about a support shaft which is parallel to the conveying direction. The conveyors which are provided to each tilting conveyor unit comprise belt conveyors 26a obtained by tensioning a belt 26c between a pair made up of a front pulley 26a and a rear pulley 26b, and the belt 26c of this belt conveyor 26a has
12 provided thereto a plurality of ridge portions 47 which extend in the width direction on the inside surface, and on the outside surface the ridge portions 48 which extend in the width direction are provided an equivalent intervals in the length direction of the belt. The pair made up of the front pulley 26a and the rear pulley 26b are not provided with flange portions which hold both side edges of the belt 26c, and a plurality of recessed grooves 49 which engage with each of the
18 ridge portions 47 on the inside surface of the belt 26c are provided to the peripheral surfaces of the front pulley 26a and the rear pulley 26b.

(FIG. 8A, 8B)