

ABSTRACT

An integrated unit for producing double-layered spherical products 23 in two rows on a belt conveyor 25 under it is disclosed. The length of the integrated unit is aligned with the traveling direction of the conveyor 25 in order to reduce the space needed on both sides of the conveyor 25. The integrated unit includes a filling feeder 15 and a casing feeder 17 for feeding a filling (food material) 5 and a casing (food material) 9 such that the feeders 15 and 17 are arranged opposite each other. A space between the feeders 15 and 17 of the integrated unit is provided with vane pumps 29A and 29B and a pair of double nozzles 13A and 13B, which are positioned in the center of the integrated unit. The vane pumps 29A and 29B pump the corresponding materials 5 and 9 from the corresponding feeders 15 and 17 to the corresponding double nozzles 13A and 13B. Each double nozzle extrudes the filling 5 and the casing 9 in a form of a double-layered elongated product. The integrated unit also includes a pair of cutting mechanisms 21 for cutting the elongated product into a plurality of double-layered spherical products 23, and for dropping them on the conveyor 25 in two rows.

(Fig. 2)



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