ABSTRACT

DEVICE FOR PROMOTING THE GROWTH OF PLANTS

The invention relates to a device and to a method for promoting the growth of plants (8), comprising a conveyor belt (2) which can be moved along a conveyor path (1) for transporting, at least in sections, plants (8) which are at least temporarily supplied with nutrients by a nutrient supply (9) and illuminated by an illumination unit (10) during movement along the conveyor path (1). The conveyor path (1) is at least approximately horizontal in at least one first section (7), and is at least approximately vertical in at least one second section (6). The technical solution described is characterized in that the plants (8) are at least temporarily fixed relative to the conveyor belt (2) during transport along the conveyor path (1) such that at least parts of roots of the plants (8) protrude into a region (19) located below a lower surface of the conveyor belt (2), while at least parts of leaves and/or fruits of the plants (8) protrude into a region (20) located above an upper surface of the conveyor belt which opposes the lower surface. As a result of the use of modularly constructed conveyor belt ribbons, growing periods of an arbitrary length are adjusted or an adapted required space of the plant assembly is ensured.

Figure 1