CLAIMS

[Claim 1]

A plant cultivation system comprising:

a plurality of racks, each of the plurality of racks comprising a plurality of cultivation vessels for cultivating a plant;

a travel line on which the plurality of racks are arranged in such a manner that the plurality of racks can be in contact or separated, the travel line guiding the plurality of racks to integrally advance;

a first electric wire installed along the travel line; and

a plurality of second electric wires which branch from the first electric wire,

wherein each of the plurality of racks comprises: a water supply pipe for supplying water to each of the plurality of cultivation vessels; a water drain pipe for draining water from each of the plurality of cultivation vessels; a pump for circulating water between the water supply pipe and the water drain pipe; and one of the plurality of second electric wires, and

wherein the first rack of the plurality of racks can advance away from the following rack(s) of the plurality of racks in accordance with a growth state of a plant cultivated in the plurality of cultivation vessels; and each of the plurality of second electric wires is connected to the first electric wire so as to be able to follow movement of the rack, and

wherein the first electric wire and the plurality of second electric wires are at least configured for driving the pump.

[Claim 2]

The plant cultivation system of claim 1, wherein the travel line is provided to a floor.

[Claim 3]

The plant cultivation system of claim 1 or 2, wherein the travel line comprises a guide rail.

[Claim 4]

The plant cultivation system of any one of claims 1 to 3, wherein each of the plurality of racks comprises a caster.

[Claim 5]

The plant cultivation system of any one of claims 1 to 4, wherein each of the plurality of racks comprises an illumination means for illuminating a plant cultivated in the plurality of cultivation vessels, and

wherein the first electric wire and the plurality of second electric wires are further configured for making the illumination means emit light.

[Claim 6]

A plant cultivation method comprising cultivating a plant using the plant cultivation system of any one of claims 1 to 5.

[Claim 7]

The plant cultivation method of claim 6, comprising:

setting the plurality of cultivation vessels in each of the plurality of racks;

adjacently arranging the plurality of racks on a travel line in order of growth of a plant;

intermittently advancing the plurality of racks according to a growth state of a plant; and

separating the first rack of the plurality of racks from the following rack(s) of the plurality of racks, and making a new rack adjacent to the last rack of the following rack(s).

[Claim 8]

The plant cultivation method of claim 7, wherein a plurality of types of the plurality of cultivation vessels are used, wherein a plant is transplanted to enlarge an interval from an adjacent plant in accordance with each growth state of seeding, seedling-raising, and planting of a plant.