

example, see PTL 4). Specifically, when vegetables are cultivated using a typical fertilizer containing potassium in the early period of the cultivation period, the vegetables are cultivated using a fertilizer with the content of potassium and the concentration of nitrogen greater than those of a typical
5 fertilizer containing potassium. According to this hydroponic cultivation method, failure such as leaf discoloration or the like does not occur.

Citation List

Patent Literature

- 10 [0009] PTL 1: Japanese Patent Unexamined Publication No. 2008-061587
PTL 2: Japanese Patent Unexamined Publication No. 2011-036226
PTL 3: Japanese Patent Unexamined Publication No. 2012-183062
PTL 4: International Publication 2014/054821A

15 SUMMARY

[0010] The present disclosure provides a low potassium vegetable, a solution cultivation method therefor, and a cultivation device, in which the content of potassium in the entire vegetable is lower than that of a cultivation method of the related art while potassium deficiency is suppressed and the harvest weight
20 can be maintained even when the cultivation period using a fertilizer that does not contain potassium is long.

[0010A] According to an aspect, there is provided a solution cultivation method for a low potassium vegetable, dividing of a total cultivation period from sowing to harvest into a first cultivation period and a second cultivation period
25 following the first cultivation period according to a kind of vegetable, comprising;

cultivating the vegetable in the first cultivation period using a first

culture solution containing a first fertilizer for solution cultivation which contains potassium;

cultivating the vegetable in the second cultivation period using a second culture solution containing a second fertilizer for solution cultivation which
5 does not substantially contain potassium; and

applying air flow to the vegetable during the second cultivation period.

[0011] In a solution cultivation method for low potassium vegetables according to an aspect of the present invention, first, a total cultivation period from sowing to harvest is divided into a first cultivation period and a second
10 cultivation period according to a kind of a vegetable to be cultivated. In the first cultivation period, the vegetable is cultivated using a first culture solution containing a first fertilizer for solution cultivation which contains potassium.

In the second cultivation period, the vegetable is cultivated using a second culture solution containing a second fertilizer for solution cultivation which does not contain potassium. An air flow is applied to a growing point of the vegetable at a controlled speed during the second cultivation period.

- 5 [0012] According to the present disclosure, the harvest weight is not inferior to the harvest weight of a vegetable cultivated using a fertilizer that does not contain potassium and the low potassium vegetable with the content of potassium lower than that of a vegetable cultivated using a cultivation method of the related art can be cultivated.

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BRIEF DESCRIPTION OF DRAWINGS

[0013] FIG. 1 is a diagram showing respective cultivation periods in a solution cultivation method according to an exemplary embodiment of the present invention.

- 15 FIG. 2 is a view showing a configuration of a cultivation device according to the exemplary embodiment of the present invention.

FIG. 3 is a sectional view showing the configuration of the cultivation device according to the exemplary embodiment of the present invention.

FIG. 4 is a top view of lettuce.

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DESCRIPTION OF EMBODIMENT

- [0014] Prior to the description of an exemplary embodiment of the present invention, the problem in a hydroponic cultivation method of the related art will be described. In a case of cultivating vegetables using hydroponic cultivation methods disclosed in PTLs 1 to 4 described above, it is necessary to cultivate vegetables for a long period of time in order to decrease the content of potassium. In a case where the cultivation period using a fertilizer that does
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CLAIMS

1. A solution cultivation method for a low potassium vegetable, dividing of a total cultivation period from sowing to harvest into a first cultivation period and a second cultivation period following the first cultivation period according to a kind of a vegetable, comprising;

cultivating the vegetable in the first cultivation period using a first culture solution containing a first fertilizer for solution cultivation which contains potassium;

cultivating the vegetable in the second cultivation period using a second culture solution containing a second fertilizer for solution cultivation which does not substantially contain potassium; and

applying an air flow to the vegetable during the second cultivation period.

2. The solution cultivation method for a low potassium vegetable according to claim 1,

wherein the controlled speed of air applied to a surface of a leaf of the vegetable is in a range from 0.05 m/sec to 2 m/sec, inclusive.

3.

The solution cultivation method for a low potassium vegetable according to claim 1 or 2,

wherein the controlled speed of air applied to a surface of a leaf of the vegetable is in a range from 0.3 m/sec to 0.7 m/sec, inclusive.

4.

The solution cultivation method for a low potassium vegetable according to claim 2,

wherein the second cultivation period is set to have a length in a range from 33% to 50%, inclusive, of the total cultivation period.