

Fig. 1

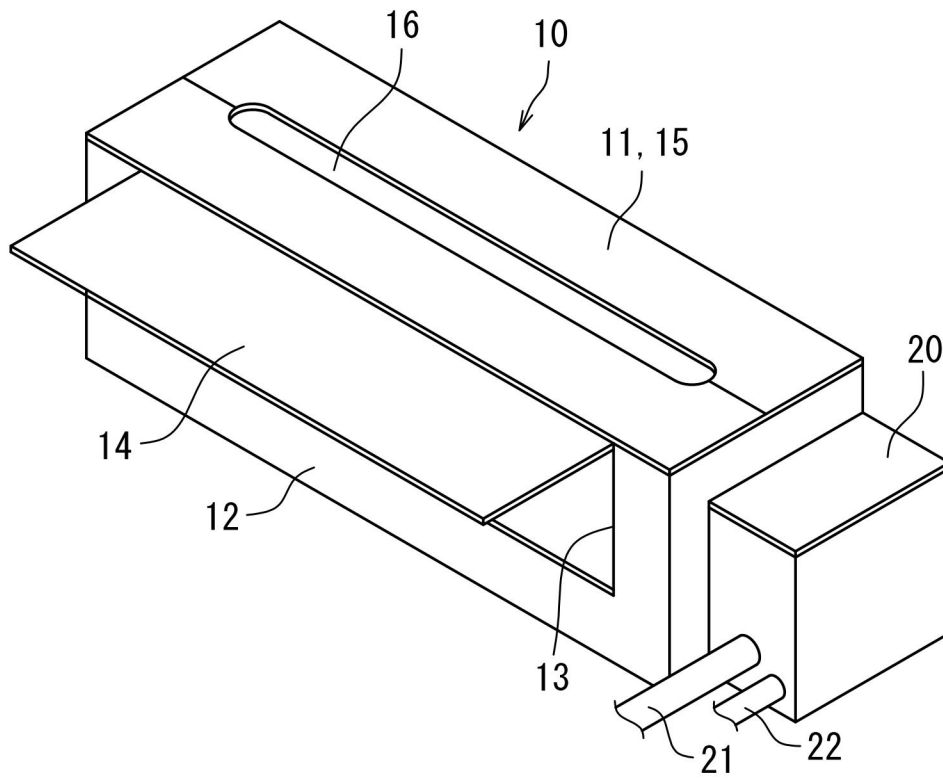


Fig. 2

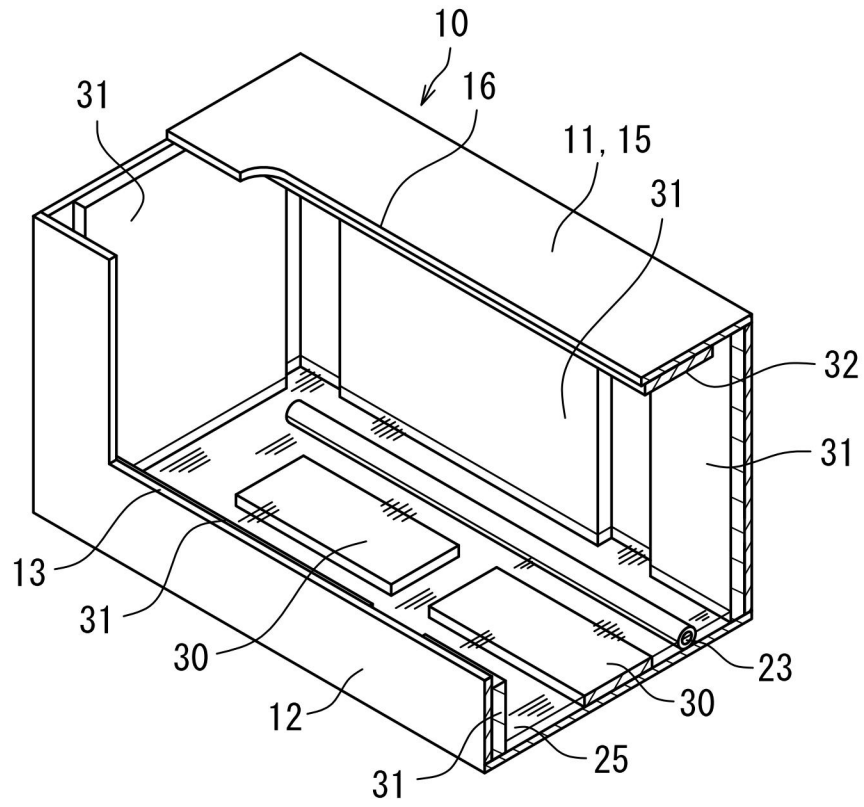






Fig. 4

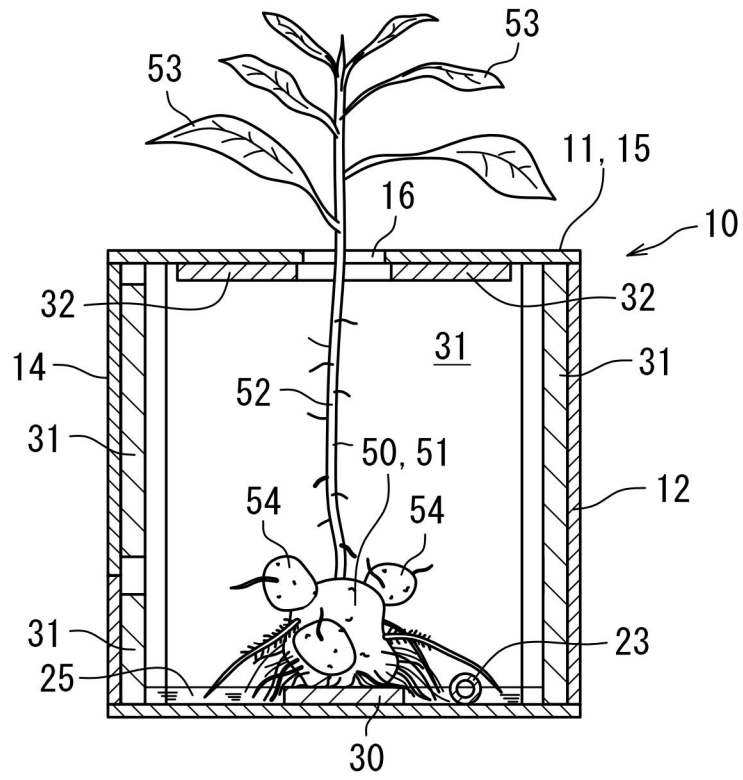


Fig. 5

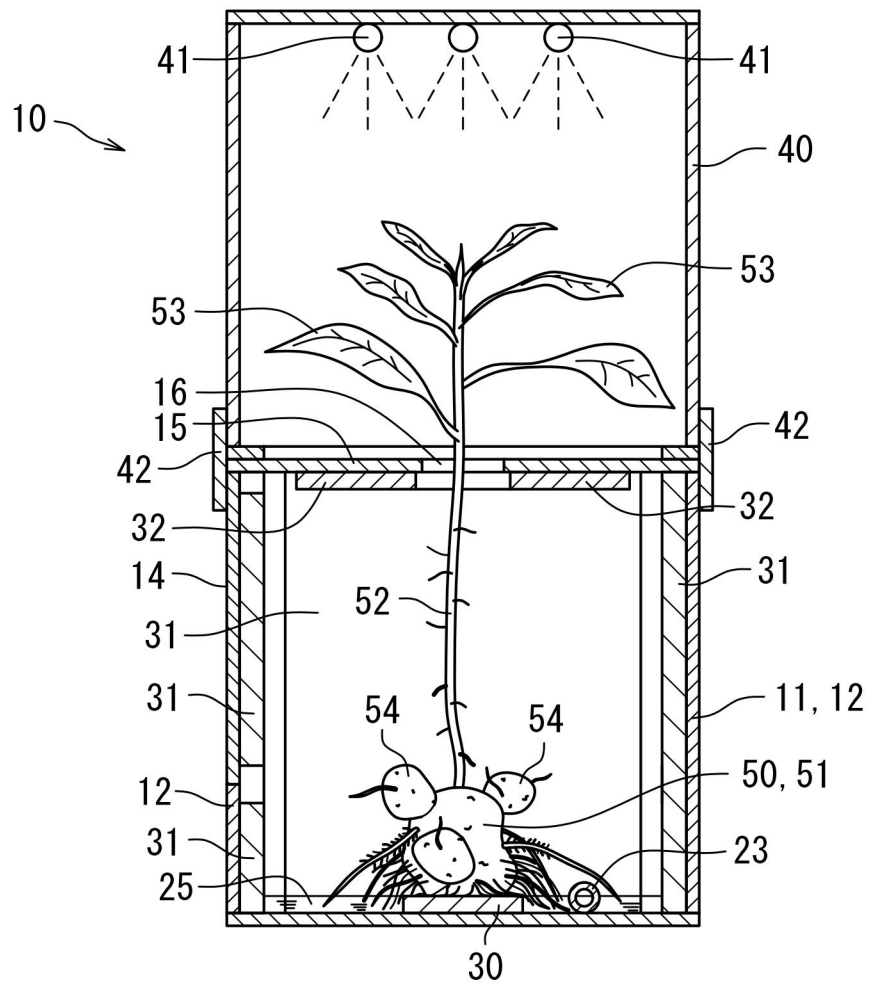


Fig. 6

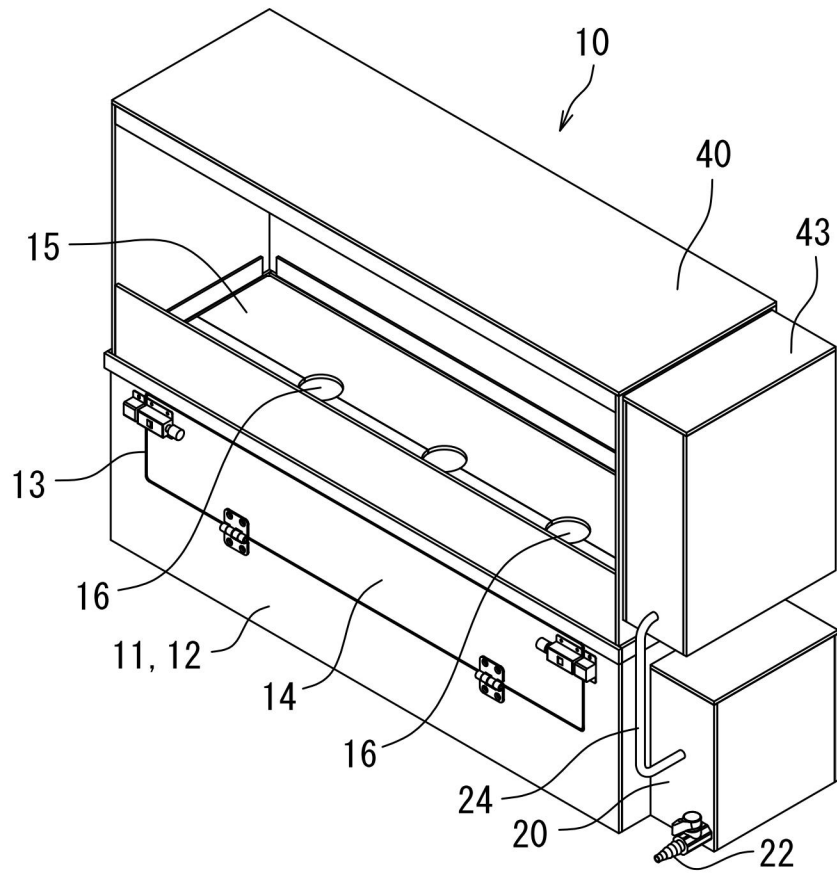


Fig. 7

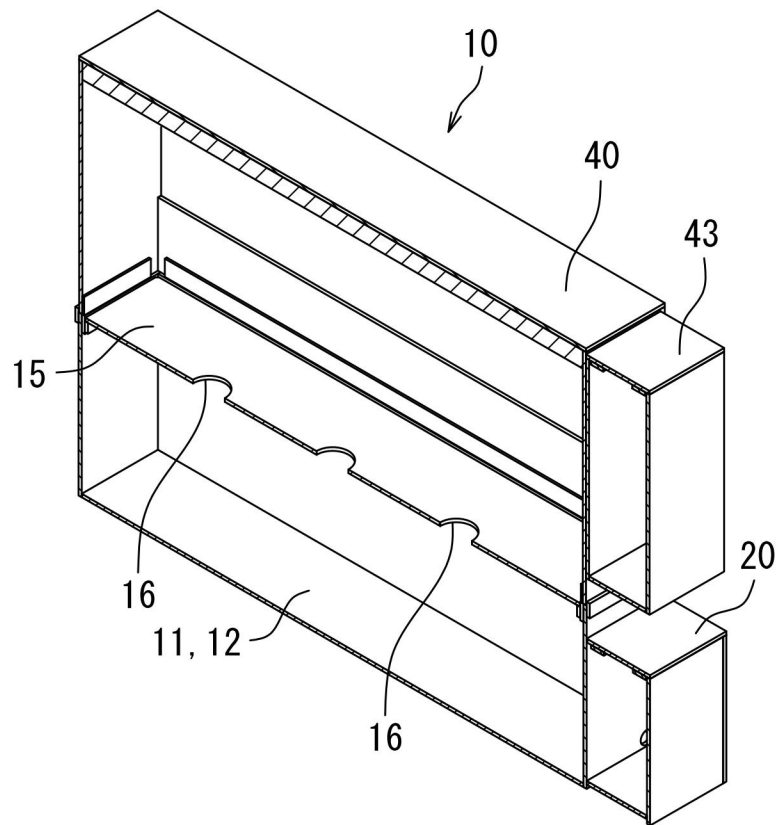


Fig. 8

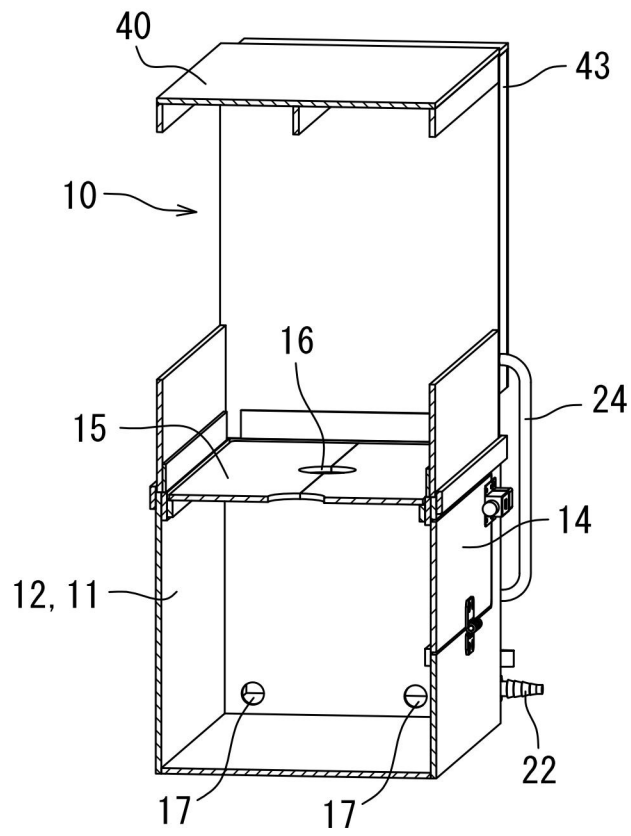


Fig. 9

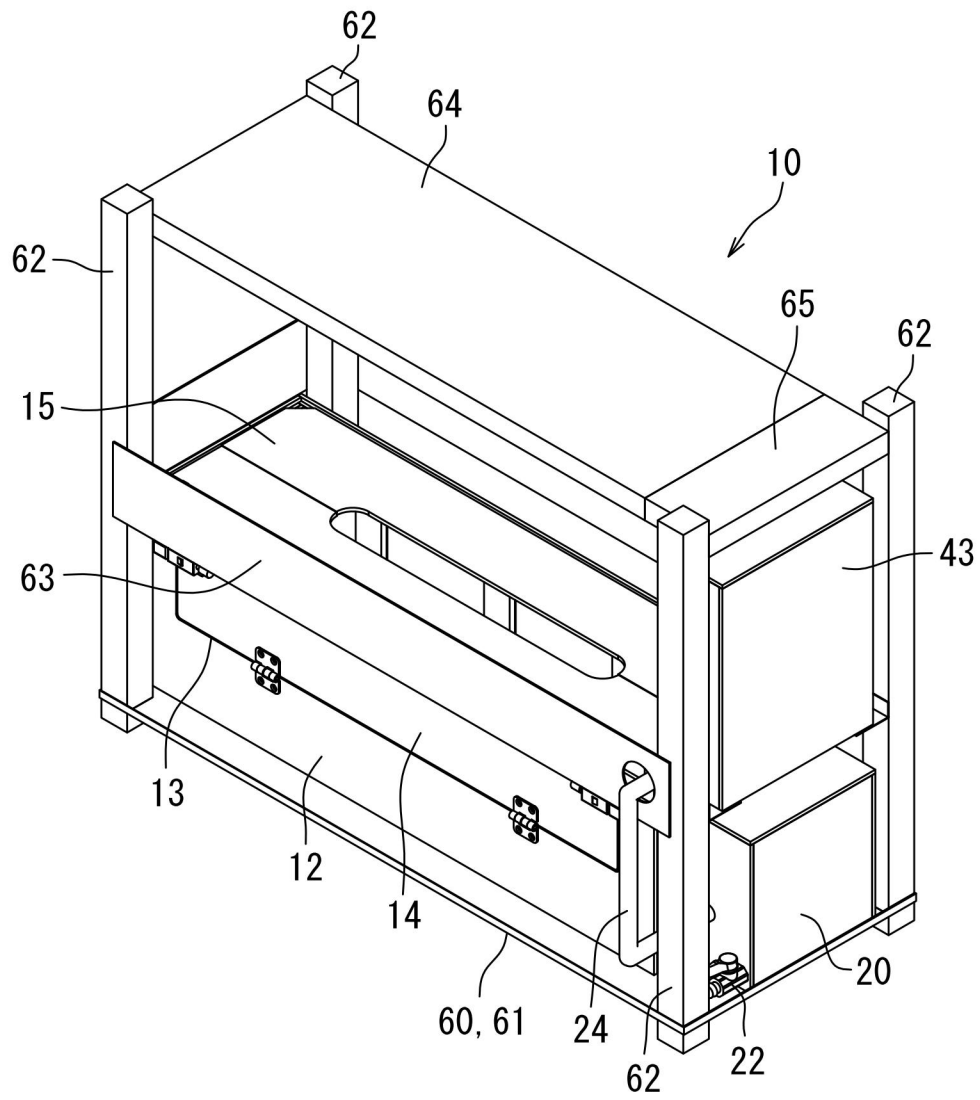


Fig. 10

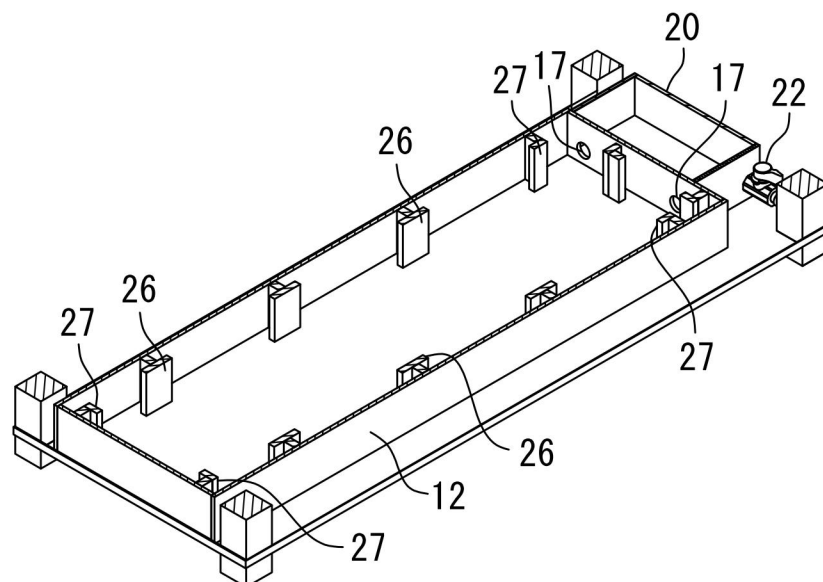


Fig. 11

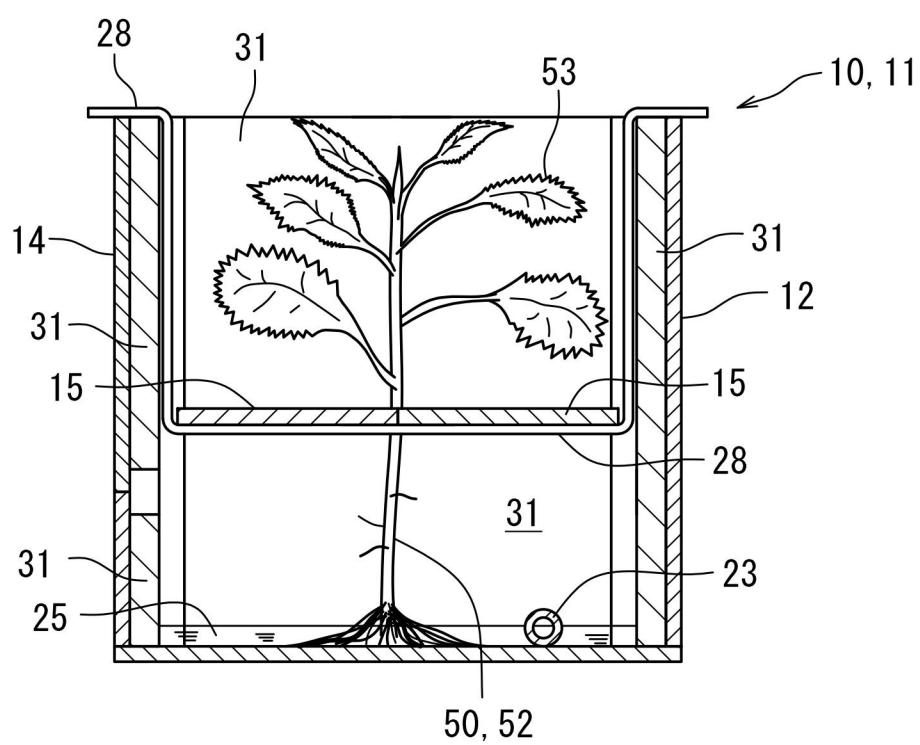




Fig. 12



Fig. 13

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| 83 | 101 | 76 |
| 86 | 111 | 85 |
| 53 | 71  | 58 |

Fig. 14

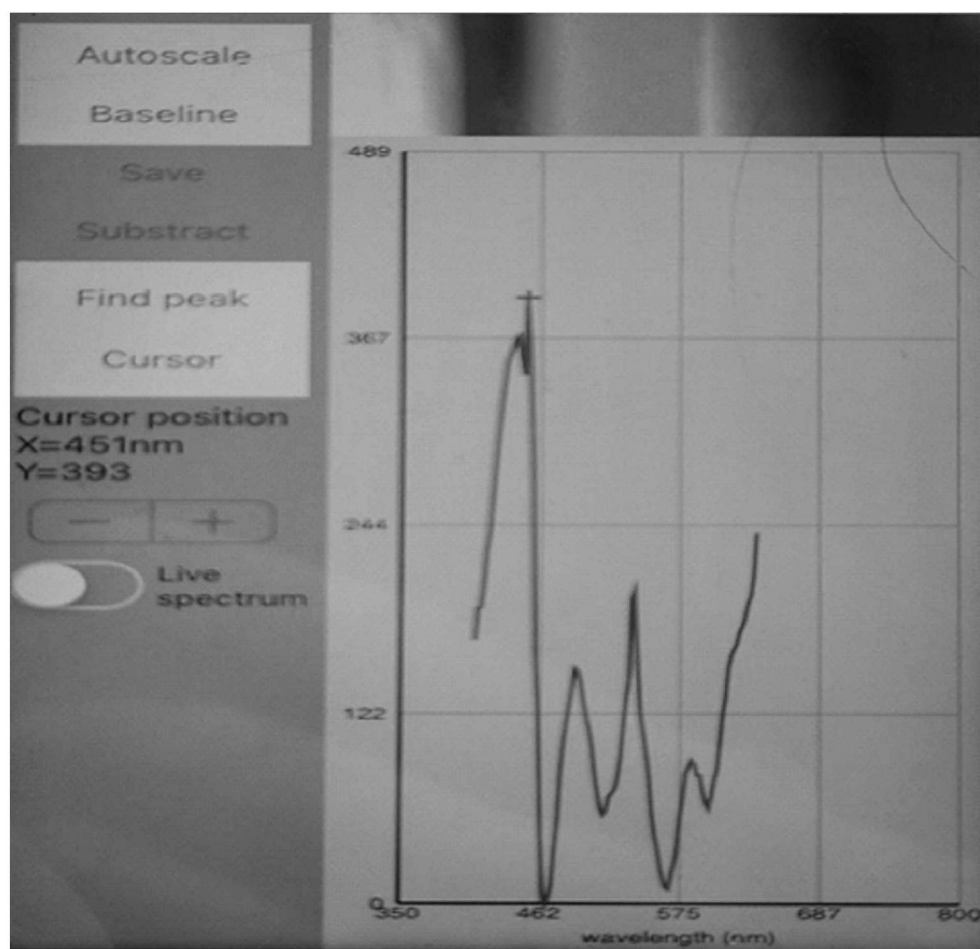
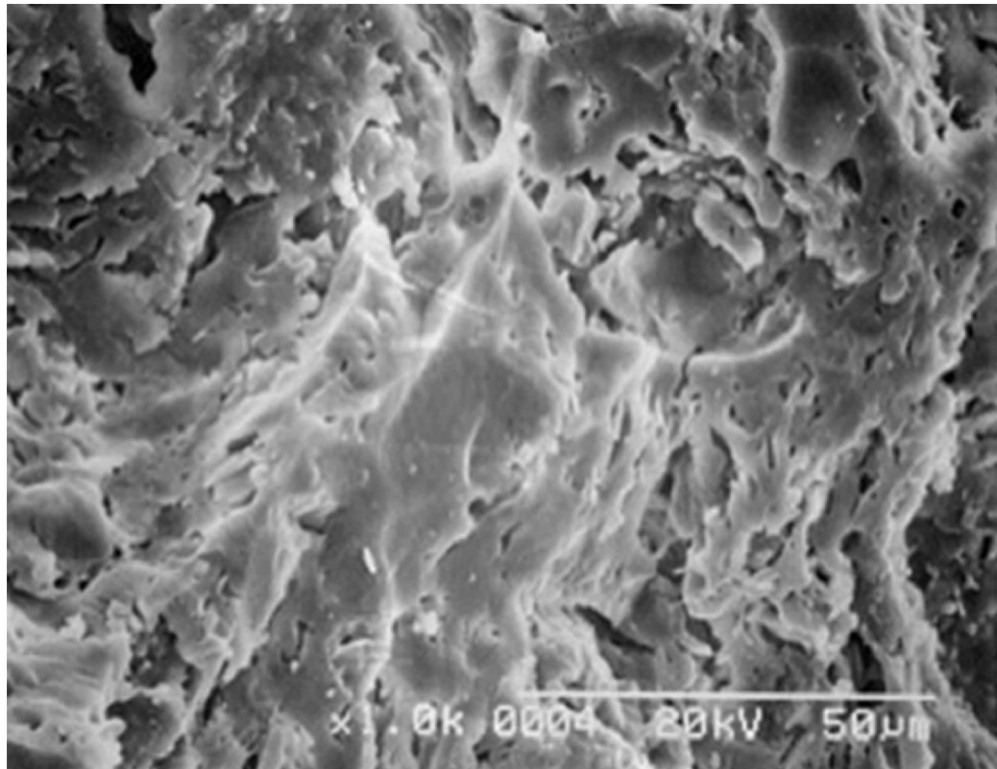
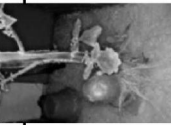
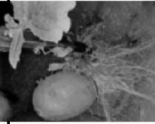
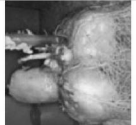


Fig. 15



**Fig. 16** [Potato] Example 1

|                                            | Main Use           | Family                                               | Genus                                                                                 | Species                           | Common Name                                                                           | (ii) Type of Primordium                                                               | (iii) Form of Primordium                                                              | Lining Ceramics                                                                      | RB type                                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|--------------------------------------------|--------------------|------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                            | E. Root vegetables | Solanaceae                                           | Solanum                                                                               | S. tuberosum                      | Potato                                                                                | Q. Seed potato                                                                        | Q-1.                                                                                  | Marushun Ceramics                                                                    | RB1                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                                            | Item               | Day 0<br>Date of Mounting<br>Regeneration Primordium | Day 15                                                                                | Day 23                            | Day 27                                                                                | Day 38                                                                                | Day 44                                                                                | Day 50                                                                               | Day 51                                                                              | Day 61                                                                              | Day 80                                                                              | Day 100                                                                             | Day 116                                                                             |
|                                            | Year/Month/Day     | 2022/11/23                                           | 2022/12/8                                                                             | 2022/12/16                        | 2022/12/20                                                                            | 2022/12/31                                                                            | 2023/1/6                                                                              | 2023/1/12                                                                            | 2023/1/13                                                                           | 2023/1/23                                                                           | 2023/2/11                                                                           | 2023/3/3                                                                            | 2023/3/19                                                                           |
|                                            | Growth Stage       | Mounting Seed potatoes                               |                                                                                       |                                   | Growth of Aboveground parts                                                           |                                                                                       | Blooming                                                                              | Fruiting                                                                             | Enlargement of Daughter tubers                                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                                            | Remarks            | Lighting for 12 hours + Indoor lighting for 24 hours | Growth of Buds                                                                        | Indoor also lighting for 12 hours | Passing through the through hole                                                      |                                                                                       |                                                                                       |                                                                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Aboveground                                | Photos             |                                                      |                                                                                       |                                   |   |   |   |   |                                                                                     |   |   |   |   |
|                                            | Remarks            | Already sprouted                                     | Appearance of Vapor-phase roots                                                       |                                   |                                                                                       |                                                                                       |                                                                                       | Confirmation of Daughter tubers formation                                            |                                                                                     |                                                                                     | Enlargement of Daughter tubers larger than the seed potato                          |                                                                                     | Harvesting Daughter tubers                                                          |
| Underground<br>(In the light-shading case) | Photos             |                                                      |  |                                   |  |  |  |  |  |  |  |  |  |
|                                            |                    |                                                      |                                                                                       |                                   |                                                                                       |                                                                                       |                                                                                       |                                                                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

\* Harvested daughter tuber 1 ... 163.4g  
Harvested daughter tuber 2 ... 89.1g

Fig. 17



Fig. 18

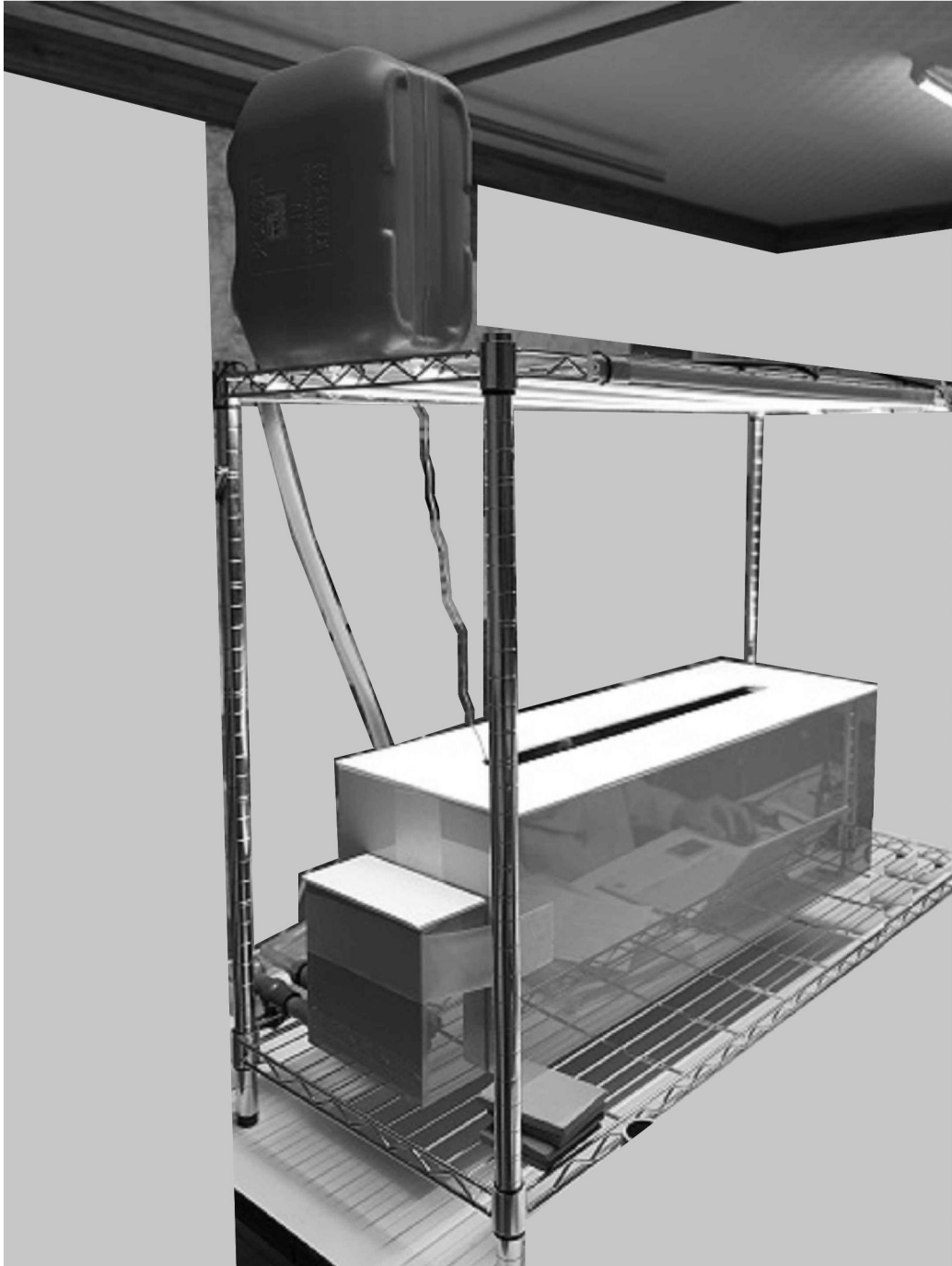
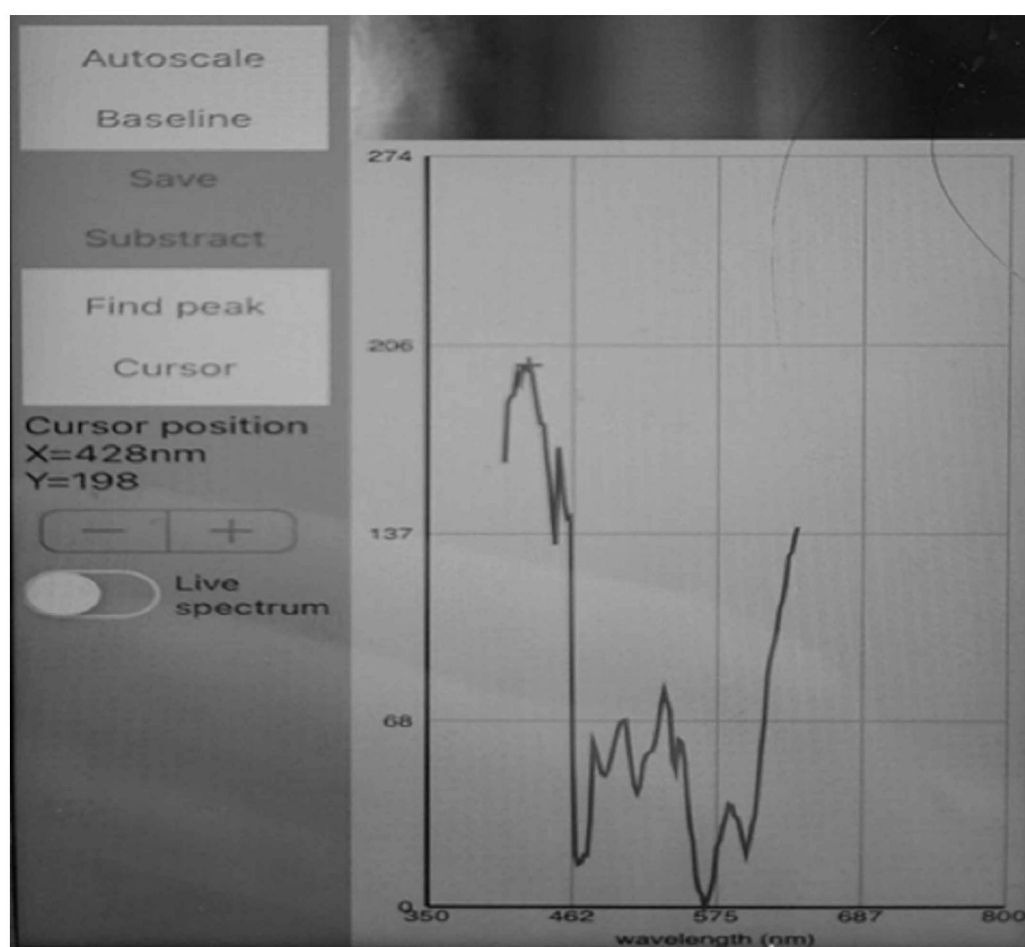


Fig. 19

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| 134 | 161 | 142 |
| 193 | 229 | 190 |
| 190 | 204 | 188 |

Fig. 20



[Potato] Example 2

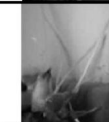
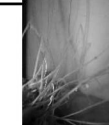
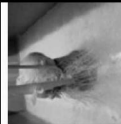
|                                            | Main Use           | Family                                                                                | Genus                                                                                 | Species                                                                               | Common Name                                                                           | (i) Type of Primordium                                                                | (iii) Form of Primordium                                                              | Lining Ceramics                                                                      | RB type                                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |
|--------------------------------------------|--------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|
|                                            | E. Root vegetables | Solanaceae                                                                            | Solanum                                                                               | S. tuberosum                                                                          | Potato                                                                                | Q.Seed potato                                                                         | Q-1.                                                                                  | Marushun Ceramics                                                                    | RB1                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |            |
|                                            |                    | Day 0<br>Date of Mounting<br>Regeneration Primordium                                  | Day 6                                                                                 | Day 12                                                                                | Day 14                                                                                | Day 20                                                                                | Day 22                                                                                | Day 28                                                                               | Day 32                                                                              | Day 42                                                                              | Day 63                                                                              | Day 100                                                                             | Day 150                                                                             | Continuing |
|                                            | Year/Month/Day     | 2022/11/8                                                                             | 2022/11/14                                                                            | 2022/11/20                                                                            | 2022/11/22                                                                            | 2022/11/28                                                                            | 2022/11/30                                                                            | 2022/12/6                                                                            | 2022/12/10                                                                          | 2022/12/20                                                                          | 2023/1/10                                                                           | 2023/2/16                                                                           | 2023/4/7                                                                            |            |
|                                            | Growth Stage       | Mounting Seed potatoes                                                                |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                      |                                                                                     |                                                                                     | Blocking the through hole                                                           |                                                                                     |                                                                                     |            |
|                                            | Remarks            | Lighting for 12 hours                                                                 |                                                                                       |                                                                                       | Growth of Buds                                                                        | Reaching the through hole                                                             | Passing through the through hole                                                      | Expansion of aboveground part                                                        |                                                                                     |                                                                                     |                                                                                     |                                                                                     | Growth of new buds                                                                  |            |
| Aboveground                                | Photos             |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                       |   |                                                                                     |   |  |   |   |            |
|                                            | Remarks            | Already sprouted                                                                      | Rooting                                                                               | Appearance of Vapor-phase roots                                                       |                                                                                       |                                                                                       |  |                                                                                      | Appearance of Stolons                                                               | Elongation of Stolons<br>No daughter tubers                                         | No daughter tubers                                                                  | Formation of Daughter tubers                                                        |                                                                                     |            |
| Underground<br>(In the light-shading case) | Photos             |  |  |  |  |  |  |  |  |  |                                                                                     |  |  |            |



Fig. 22



Fig. 23

[Turmeric] Example 3

|  | Main Use    | Family        | Genus   | Species  | Common Name | Type of Primordium      | Lining Ceramics   | RB type |
|--|-------------|---------------|---------|----------|-------------|-------------------------|-------------------|---------|
|  | Spice crops | Zingiberaceae | Curcuma | C. longa | Turmeric    | Rhizome (Seed Turmeric) | Marushun Ceramics | RB1     |
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Fig. 24

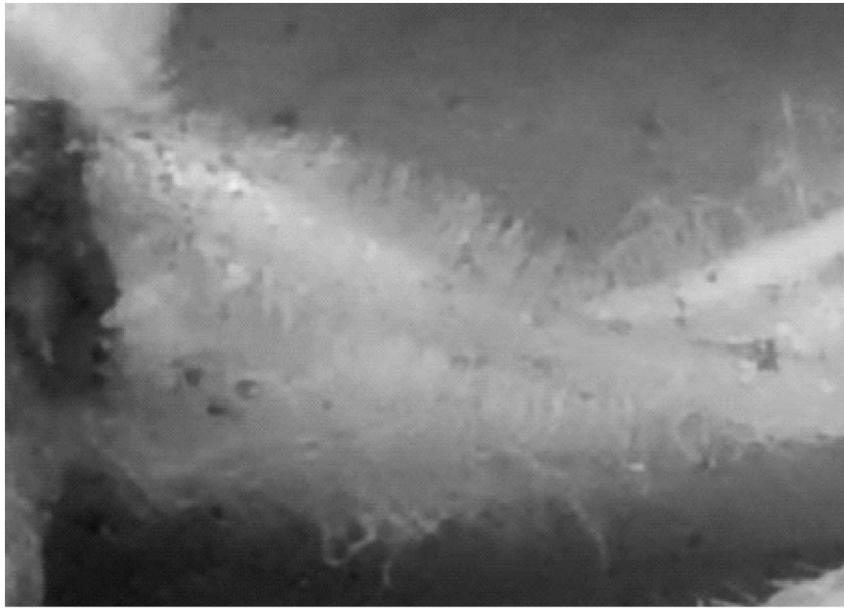


Fig. 25

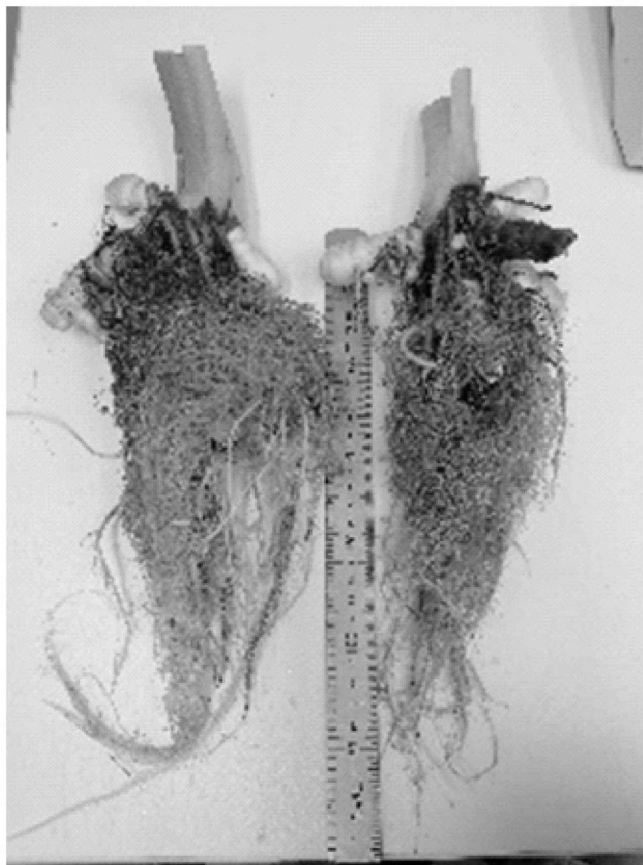


Fig. 26

[Ginger] Example 4

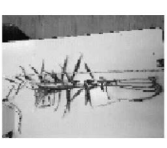
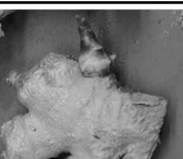
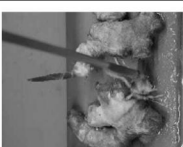
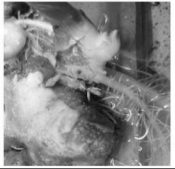
|  | Main Use        | Family                                                                                | Genus                                                                                 | Common Name                                                                           | Type of Primordium                                                                   | Lining Ceramics                                                                      | RB type                                                                             |                                                                                     |                                                                                     |                                                                                     |
|--|-----------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  | Root vegetables | Zingiberaceae                                                                         | Zingiber                                                                              | Ginger                                                                                | Rhizome (Seed Ginger)                                                                | Marushun Ceramics                                                                    | RB1                                                                                 |                                                                                     |                                                                                     |                                                                                     |
|  | Item            | Day 0<br>Date of Mounting<br>of Regeneration<br>Primordium                            | Day 8                                                                                 | Day 30                                                                                | Day 31                                                                               | Day 36                                                                               | Day 58                                                                              | Day 71                                                                              | Day 122                                                                             | Day 136                                                                             |
|  | Year/Month/Day  | 2023/5/22                                                                             | 2023/5/30                                                                             | 2023/6/21                                                                             | 2023/6/22                                                                            | 2023/6/27                                                                            | 2023/7/19                                                                           | 2023/8/1                                                                            | 2023/9/21                                                                           | 2023/10/5                                                                           |
|  | Growth Stage    | Vegetative growth                                                                     |                                                                                       |                                                                                       |                                                                                      |                                                                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|  | Remarks         | Lighting for 14 hours                                                                 |                                                                                       |                                                                                       | Passing through the through hole                                                     | Expansion of leaves                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|  | Photos          |                                                                                       |                                                                                       |                                                                                       |  |   |   |   |   |   |
|  | Remarks         | Mounting seed gingers (already sprouted)                                              | Rooting                                                                               | Elongation of Liquid-phase roots                                                      |                                                                                      | Enlargement of a new rhizome<br>Development of Vapor-phase roots                     | Sprouting from the new rhizome                                                      | Elongation of Stems                                                                 | Formation of Rhizomes one after another                                             | Harvesting 23.9 g                                                                   |
|  | Photos          |  |  |  |                                                                                      |  |  |  |  |  |

Fig. 27



Fig. 28



Fig. 29 [Corn] Example 5

|                                            | Main Use       | Family                                                                                | Genus                                                                               | Species                                                                               | Common Name                                                                         | Type of Primordium                                                                  | Lining Ceramics                                                                    | RB type                                                                           |                                                                                   |                                                                                   |
|--------------------------------------------|----------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|                                            | Food crops     | Poaceae                                                                               | Zea                                                                                 | Z. mays                                                                               | Corn                                                                                | Seedling                                                                            | Marushun Ceramics                                                                  | RB1                                                                               |                                                                                   |                                                                                   |
|                                            | Item           |                                                                                       | Day 0<br>Date of Mounting<br>Regeneration Primordium                                | Day 4                                                                                 | Day 35                                                                              | Day 42                                                                              | Day 46                                                                             | Day 49                                                                            | Day 67                                                                            | Day 79                                                                            |
|                                            | Year/Month/Day | 2023/4/26                                                                             | 2023/5/1                                                                            | 2023/5/5                                                                              | 2023/6/5                                                                            | 2023/6/12                                                                           | 2023/6/16                                                                          | 2023/6/19                                                                         | 2023/7/7                                                                          | 2023/7/19                                                                         |
|                                            | Growth Stage   |                                                                                       | Mounting Seedling                                                                   |                                                                                       | Reproductive growth                                                                 |                                                                                     |                                                                                    |                                                                                   |                                                                                   |                                                                                   |
|                                            | Remarks        |                                                                                       | Lighting for 12 hours                                                               |                                                                                       | Confirmation of Tassels                                                             | Collection of Pollens                                                               | Confirmation of Ears                                                               | Artificial Pollination                                                            | Enlargement of Caryopses                                                          | Confirmation of Caryopes                                                          |
| Aboveground                                | Photos         |                                                                                       |  |    |  |  |  |  |  |  |
| Underground<br>(In the light-shading case) | Remarks        | Washing with water roots of seedling in a pot                                         |                                                                                     | Elongation of Liquid-phase roots<br>Appearance of Vapor-phase roots                   |                                                                                     |                                                                                     |                                                                                    |                                                                                   |                                                                                   |                                                                                   |
|                                            | Photos         |  |                                                                                     |  |                                                                                     |                                                                                     |                                                                                    |                                                                                   |                                                                                   |                                                                                   |

Fig. 30

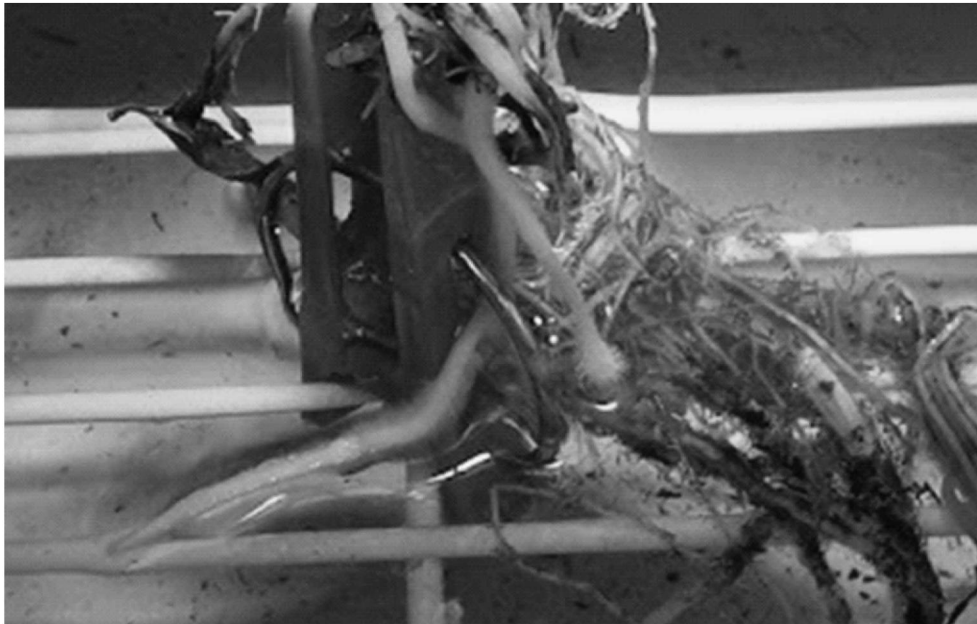


Fig. 31





**Fig. 32** [Soybean] Example 6

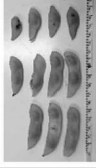
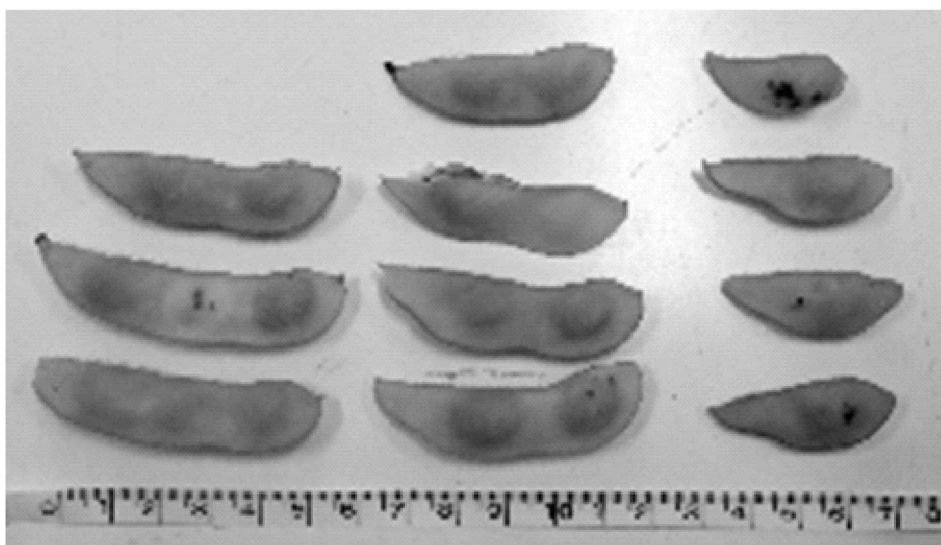
|                                                |                |                                                                                       |                                                                                     |                                                                                       |                                                                                     |                                                                                    |                                                                                    |                                                                                   |
|------------------------------------------------|----------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|                                                | Main Use       | Family                                                                                | Genus                                                                               | Species                                                                               | Common Name                                                                         | Type of Primordium                                                                 | Lining Ceramics                                                                    | RB type                                                                           |
|                                                | Food crops     | Fabaceae                                                                              | Glycine                                                                             | G. max                                                                                | Soybean, Edamame                                                                    | Seedling                                                                           | Marushun Ceramics                                                                  | RB1                                                                               |
| Aboveground                                    | Item           |                                                                                       | Day 0<br>Date of Mounting<br>Regeneration<br>Primordium                             | Day 4                                                                                 | Day 21                                                                              | Day 35                                                                             | Day 51                                                                             | Day 56                                                                            |
|                                                | Year/Month/Day | 2023/4/26                                                                             | 2023/5/1                                                                            | 2023/5/5                                                                              | 2023/5/22                                                                           | 2023/6/5                                                                           | 2023/6/21                                                                          | 2023/6/26                                                                         |
|                                                | Growth Stage   |                                                                                       |                                                                                     |                                                                                       |                                                                                     |                                                                                    |                                                                                    |                                                                                   |
|                                                | Remarks        |                                                                                       | Mounting Seedling<br>Lighting for<br>12 hours                                       | Appearance of<br>new leaves                                                           | Blooming<br>Fruiting                                                                | Fruiting<br>Enlarging                                                              | Enlarging                                                                          | Harvesting<br>11 pods (Total<br>weight 23 g)                                      |
|                                                | Photos         |                                                                                       |  |    |  |  |  |  |
| Underground<br>(In the light-<br>shading case) | Remarks        | Washing with<br>water roots of<br>seedling in a pot                                   |                                                                                     | Elongation of<br>Liquid-phase roots<br>Appearance of<br>Vapor-phase roots             |                                                                                     |                                                                                    |                                                                                    |                                                                                   |
|                                                | Photos         |  |                                                                                     |  |                                                                                     |                                                                                    |                                                                                    |                                                                                   |

Fig. 33



Fig. 34



**Fig. 35** [Rapeseed] Example 7

|                                                | Main Use       | Family                                                                                | Genus                                                                                 | Species                                                                             | Common Name                                                                         | Type of Primordium                                                                  | Lining Ceramics                                                                     | RB type                                                                             |                                                                                     |
|------------------------------------------------|----------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                | Oil crops      | Brassicaceae                                                                          | Brassica                                                                              | B. napus                                                                            | Rapeseed                                                                            | Seedling                                                                            | Marushun Ceramics                                                                   | RB1                                                                                 |                                                                                     |
|                                                | Item           | Day 0<br>Date of Mounting<br>Regeneration<br>Primordium                               | Day 7                                                                                 | Day 21                                                                              | Day 35                                                                              | Day 56                                                                              | Day 77                                                                              | Day 98                                                                              | Day 105                                                                             |
|                                                | Year/Month/Day | 2023/6/30                                                                             | 2023/7/7                                                                              | 2023/7/21                                                                           | 2023/8/4                                                                            | 2023/8/25                                                                           | 2023/9/15                                                                           | 2023/10/6                                                                           | 2023/10/13                                                                          |
|                                                | Growth Stage   | Mounting<br>Seedlings                                                                 |                                                                                       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                                                | Remarks        | Lighting for<br>12 hours                                                              |                                                                                       |                                                                                     | Withering of<br>lower leaves                                                        | Branching of<br>the stem into<br>two                                                | Reaching to<br>the upper<br>shelf                                                   | Increasing<br>withered<br>lower leaves                                              |                                                                                     |
| Aboveground                                    | Photos         |   |    |   |    |    |    |    |    |
|                                                |                | Setting a lid at<br>15 cm from the<br>bottom                                          | Appearance<br>of Vapor-<br>phase roots                                                |                                                                                     | Vapor-phase<br>roots                                                                |                                                                                     |                                                                                     | Vapor-phase<br>roots                                                                |                                                                                     |
| Underground<br>(In the light-<br>shading case) | Photos         |  |  |  |  |  |  |  |  |
|                                                |                |                                                                                       |                                                                                       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

Fig. 36



Fig. 37



Fig. 38

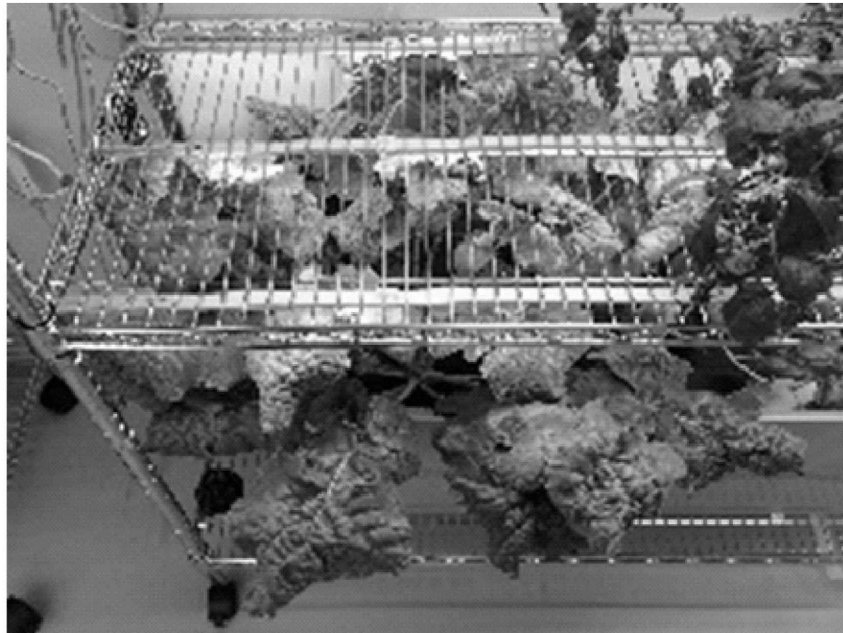


Fig. 39



Fig. 40 [Basil] Example 8

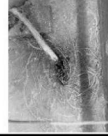
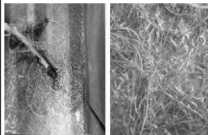
|                                            | Main Use         | Family                                                                               | Genus                                                                                 | Species                                                                               | Common Name                                                                                  | Type of Primordium                                                                   | Lining Ceramics                                                                    | RB type                                                                             |                                                                                     |
|--------------------------------------------|------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                            | Leafy vegetables | Lamiaceae                                                                            | Ocimum                                                                                | O. basilicum                                                                          | Basil                                                                                        | Seedling                                                                             | Marushun Ceramics                                                                  | RB1                                                                                 |                                                                                     |
|                                            | Item             | Day 0<br>Date of Mounting<br>Regeneration<br>Primordium                              | Day 7<br>2023/7/7                                                                     | Day 21<br>2023/7/21                                                                   | Day 49<br>2023/8/18                                                                          | Day 56<br>2023/8/25                                                                  | Day 67<br>2023/9/5                                                                 | Day 70<br>2023/9/8                                                                  | Day 105<br>2023/10/13                                                               |
|                                            | Growth Stage     | Mounting Seedlings                                                                   |                                                                                       |                                                                                       |                                                                                              |                                                                                      |                                                                                    |                                                                                     |                                                                                     |
| Aboveground                                | Remarks          | Lighting for 12 hours                                                                | Leaning it against the wall surface                                                   | Growth of axillary buds                                                               | Due to lodging of the stem, hoisting it up with wire<br>Appearance of flower buds at the tip | Beginning of the flower Spike growth                                                 | Blooming                                                                           | Progress of blooming towards the top of the flower spike                            | Late blooming<br>Progress of leaf yellowing<br>Almost mature seeds in the fruits    |
|                                            | Photos           |  |   |   |          |   |  |   |   |
| Underground<br>(In the light-shading case) | Remarks          | Setting a lid at 15 cm from the bottom                                               | Appearance of Vapor-phase roots                                                       |                                                                                       |                                                                                              |                                                                                      |                                                                                    |                                                                                     |                                                                                     |
|                                            | Photos           |                                                                                      |  |  |                                                                                              |  |                                                                                    |  |  |

Fig. 41



Fig. 42





Fig. 43



Fig. 44





Fig. 45 [Japanese peppermint] Example 9

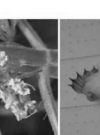
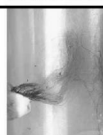
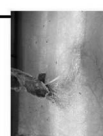
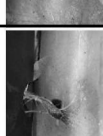
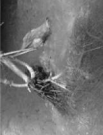
|                                                | Main Use         | Family                                                                               | Genus                                                                                 | Species                                                                               | Common Name                                                                           | Type of Primordium                                                                   | Lining Ceramics                                                                                      | RB type                                                                             |                                                                                     |                                                                                     |
|------------------------------------------------|------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                | Medicinal plants | Lamiaceae                                                                            | Mentha                                                                                | M. canadensis var. piperascens                                                        | Japanese peppermint                                                                   | Seedling                                                                             | Marushun Ceramics                                                                                    | RB1                                                                                 |                                                                                     |                                                                                     |
| Aboveground                                    | Item             | Day 0<br>Date of Mounting<br>Regeneration<br>Primordium                              | Day 7                                                                                 | Day 15                                                                                | Day 28                                                                                | Day 33                                                                               | Day 35                                                                                               | Day 49                                                                              | Day 63                                                                              | Day 70                                                                              |
|                                                | Year/Month/Day   | 2023/8/2                                                                             | 2023/8/9                                                                              | 2023/8/17                                                                             | 2023/8/30                                                                             | 2023/9/4                                                                             | 2023/9/6                                                                                             | 2023/9/20                                                                           | 2023/10/4                                                                           | 2023/10/11                                                                          |
|                                                | Growth Stage     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |                                                                                      |                                                                                                      |                                                                                     |                                                                                     | Protrusion of the tip<br>above the second shelf                                     |
|                                                | Remarks          | Mounting<br>Seedling<br>Lighting for<br>12 hours                                     | Elongation<br>of a main<br>stem<br>Appearance<br>of Axillary<br>buds                  | Progress of<br>elongation,<br>the axillary<br>buds<br>growing                         | Flower<br>buds in<br>leaf axils                                                       | Blooming                                                                             | Progress of<br>blooming<br>towards the<br>top of the<br>main stem<br>Flower buds on<br>side branches | Withering<br>of the first<br>flower<br>Appearance<br>of many<br>stolons             | Continuation of<br>blooming and<br>falling<br>Maturing of<br>seeds in fruits        | Yellowing of fruits<br>Progress of seed<br>maturing                                 |
|                                                | Photos           |  |   |   |   |  |                    |   |   |   |
| Underground<br>(In the light-<br>shading case) | Remarks          | Setting a lid at<br>10 cm from the<br>bottom<br>No mounting table                    | Appearance<br>of Vapor-<br>phase roots                                                |                                                                                       |                                                                                       |                                                                                      |                                                                                                      |                                                                                     |                                                                                     |                                                                                     |
|                                                | Photos           |                                                                                      |  |  |  |                                                                                      |                   |  |  |  |

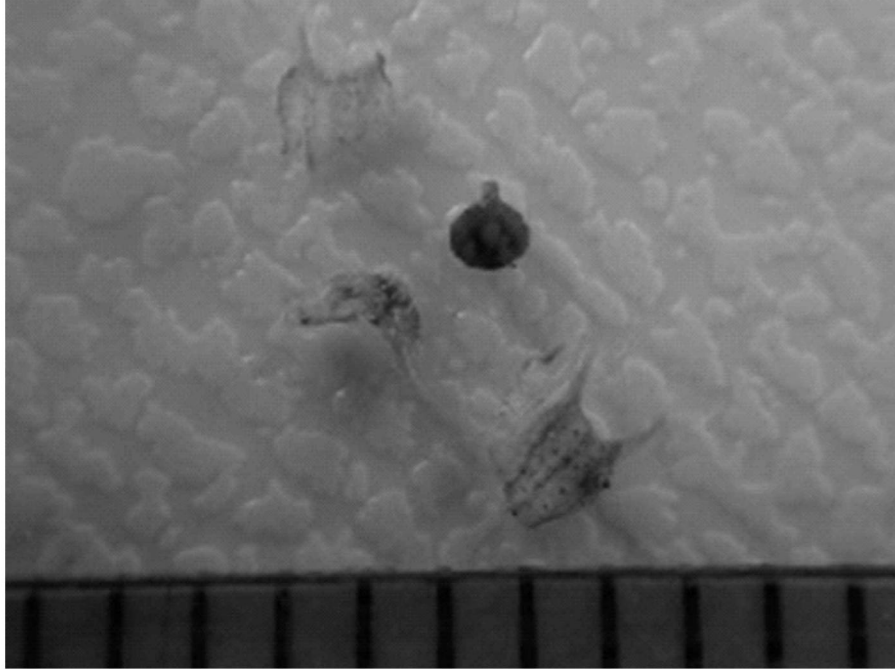
Fig. 46



Fig. 47



Fig. 48



**Fig. 49** [Green perilla] Example 10

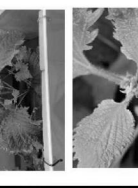
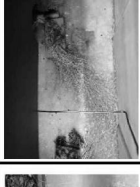
| Main Use                                   | Family         | Genus                                                                                 | Species                                                                               | Common Name                                                                           | Type of Primordium                                                                   | Lining Ceramics                                                                     | RB type                                                                             |
|--------------------------------------------|----------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Leafy vegetables                           | Lamiaceae      | Perilla                                                                               | <i>P. frutescens</i> var. <i>crispa</i>                                               | Green perilla                                                                         | Seedling                                                                             | Marushun Ceramics                                                                   | RB1                                                                                 |
| Aboveground                                | Item           | Day 0<br>Date of Mounting<br>Regeneration<br>Primordium                               | Day 14                                                                                | Day 21                                                                                | Day 27                                                                               | Day 35                                                                              | Day 49                                                                              |
|                                            | Year/Month/Day | 2023/7/13                                                                             | 2023/7/20                                                                             | 2023/8/3                                                                              | 2023/8/9                                                                             | 2023/8/17                                                                           | 2023/8/31                                                                           |
|                                            | Growth Stage   |                                                                                       |                                                                                       | Reproductive growth                                                                   |                                                                                      |                                                                                     | Termination                                                                         |
|                                            | Remarks        | Mounting Seedling Lighting for 12 hours                                               | Growth of New buds                                                                    | Continuation of the new buds growing                                                  | Appearance of Flower buds Growth of axillary buds                                    | Progress of blooming, Fruiting                                                      | Progress of blooming and fruiting Falling of almost leaves                          |
|                                            | Photos         |   |   |   |  |  |   |
| Underground<br>(In the light-shading case) | Remarks        | Setting a lid at 12 cm from the bottom                                                |                                                                                       | Appearance of Vapor-phase roots                                                       |                                                                                      |                                                                                     |                                                                                     |
|                                            | Photos         |  |  |  |  |  |  |

Fig. 50

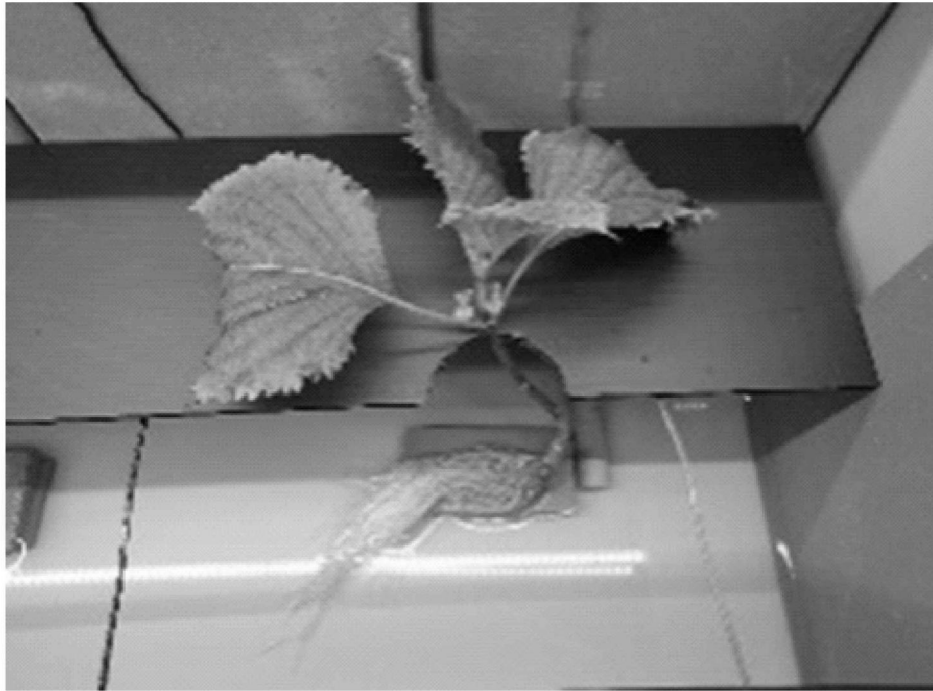


Fig. 51



Fig. 52

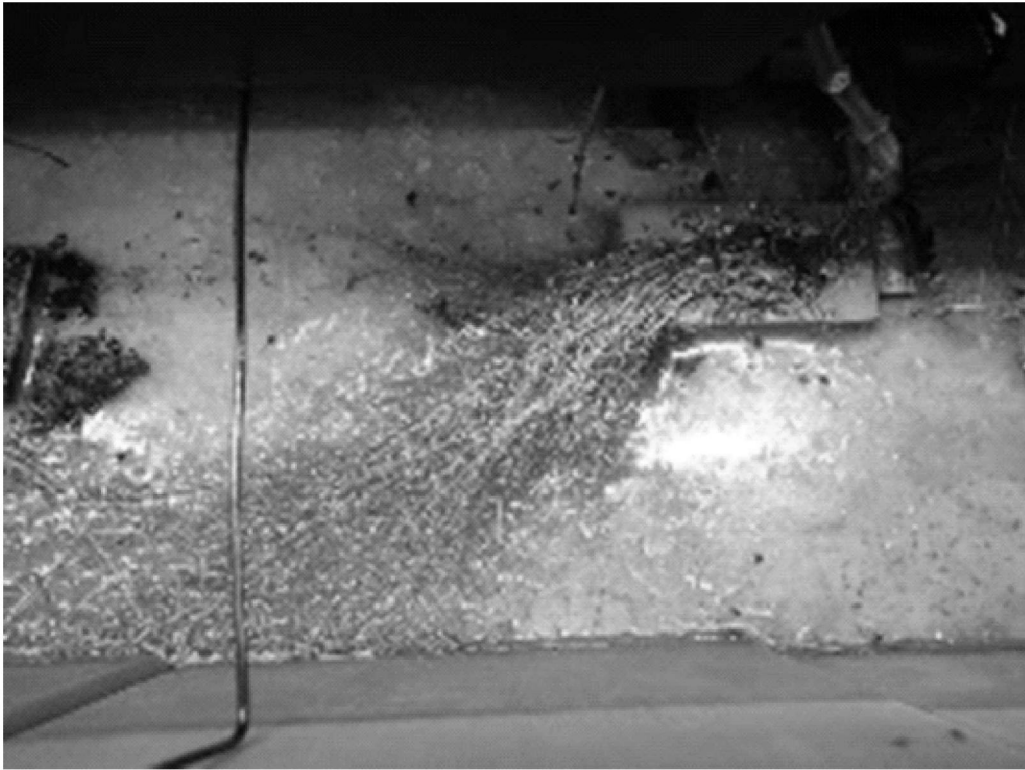


Fig. 53



Fig. 54 [Strawberry] Example 11

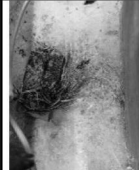
|                                                | Main Use         | Family                                                                              | Genus                                                                                 | Species                                                                               | Common Name                                                                        | Type of Primordium                                                                | Lining Ceramics                                                                     | RB type                                                                           |                                                                                                                                                                         |
|------------------------------------------------|------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                | Fruit vegetables | Rosaceae                                                                            | Fragaria                                                                              | Fragaria x ananassa                                                                   | Strawberry                                                                         | Seedling                                                                          | Marushun Ceramics                                                                   | RB1                                                                               |                                                                                                                                                                         |
|                                                | Item             | Day 0<br>Date of Mounting<br>Regeneration<br>Primordium                             | Day 7                                                                                 | Day 14                                                                                | Day 25                                                                             | Day 28                                                                            | Day 63                                                                              | Day 68                                                                            | Day 70                                                                                                                                                                  |
|                                                | Year/Month/Day   | 2023/7/13                                                                           | 2023/7/20                                                                             | 2023/7/27                                                                             | 2023/8/7                                                                           | 2023/8/10                                                                         | 2023/9/14                                                                           | 2023/9/19                                                                         | 2023/9/21                                                                                                                                                               |
|                                                | Growth Stage     |                                                                                     |                                                                                       |                                                                                       | Reproductive growth                                                                |                                                                                   |                                                                                     |                                                                                   | Termination                                                                                                                                                             |
|                                                | Remarks          | Mounting<br>Seedling<br>Lighting for<br>12 hours                                    | Growth of New<br>buds                                                                 | Elongation of<br>a first stolon                                                       | Appearance of<br>Flower buds                                                       | Blooming<br>Artificial<br>pollination                                             | Enlargement of<br>Flower<br>receptacles                                             | Coloring of the<br>flower receptacles<br>Appearance of a<br>second flower stalk   | Maturing of the<br>flower receptacles<br>Harvesting<br>(maximum 3.8 g)                                                                                                  |
| Aboveground                                    | Photos           |  |    |    |  |  |    |  | <br> |
|                                                |                  |                                                                                     |                                                                                       |                                                                                       |                                                                                    |                                                                                   |                                                                                     |                                                                                   |                                                                                                                                                                         |
| Underground<br>(In the light-<br>shading case) | Remarks          | Setting a lid at 12 cm<br>from the bottom                                           | Appearance of<br>Stolons                                                              | Appearance of<br>Vapor-phase roots                                                    |                                                                                    |                                                                                   |                                                                                     |                                                                                   |                                                                                                                                                                         |
|                                                | Photos           |                                                                                     |  |  |                                                                                    |                                                                                   |  |                                                                                   |                                                                                      |

Fig. 55

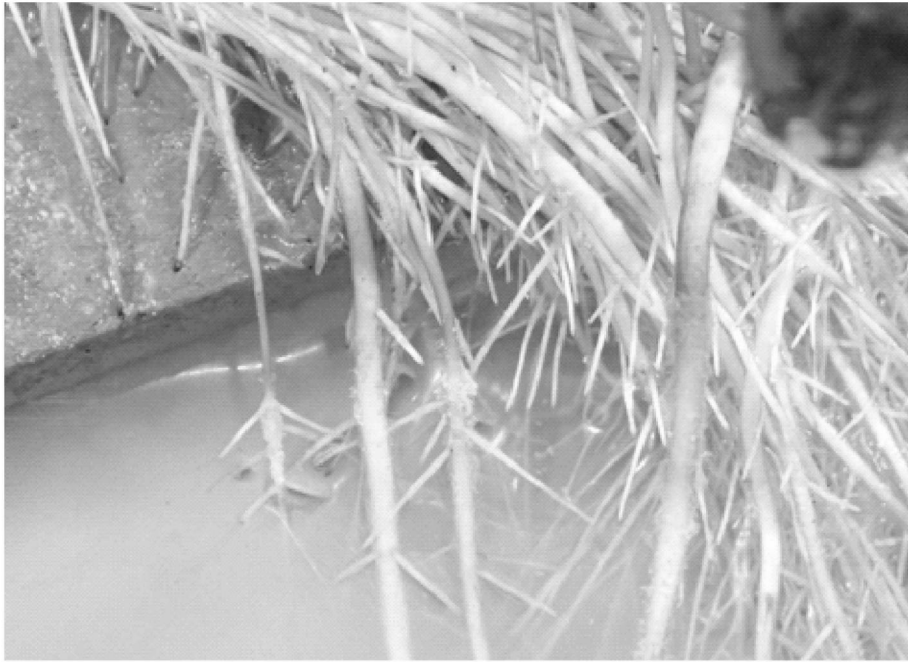


Fig. 56





Fig. 57 [Trifoliolate orange] Example 12

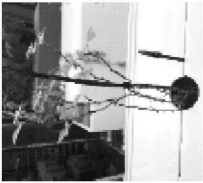
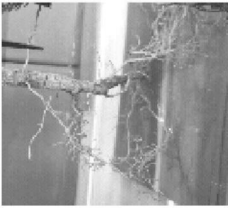
|                                                |                |                                                                                       |                                                                                       |                                                                                      |                                                                                      |                                                                                     |                   |         |
|------------------------------------------------|----------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|---------|
|                                                | Main Use       | Family                                                                                | Genus                                                                                 | Species                                                                              | Common Name                                                                          | Type of Primordium                                                                  | Lining Ceramics   | RB type |
|                                                | Trees          | Rutaceae                                                                              | Poncirus                                                                              | P. trifoliata                                                                        | Trifoliolate orange                                                                  | Seedling                                                                            | Marushun Ceramics | RB2     |
| Aboveground                                    | Item           | Day 0<br>Date of Mounting<br>Regeneration<br>Primordium                               | Day 14                                                                                | Day 28                                                                               | Day 35                                                                               | Day 42                                                                              |                   |         |
|                                                | Year/Month/Day | 2023/8/31                                                                             | 2023/9/14                                                                             | 2023/9/28                                                                            | 2023/10/5                                                                            | 2023/10/12                                                                          |                   |         |
|                                                | Growth Stage   |                                                                                       |                                                                                       |                                                                                      |                                                                                      |                                                                                     |                   |         |
|                                                | Remarks        | Lighting for<br>14 hours                                                              | Formation of<br>New leaves                                                            | Expansion of the<br>new leaves                                                       |                                                                                      | Growing of<br>new buds                                                              |                   |         |
|                                                | Photos         |   |   |  |                                                                                      |   |                   |         |
| Underground<br>(In the light-<br>shading case) | Remarks        | Washing with water<br>roots of seedling in<br>a pot<br>Mounting the seedling          | Elongation of<br>Liquid-phase<br>roots                                                |                                                                                      | Rooting of<br>Liquid-phase roots                                                     | Appearance of<br>Vapor-phase<br>roots                                               |                   |         |
|                                                | Photos         |  |  |                                                                                      |  |  |                   |         |

Fig. 58

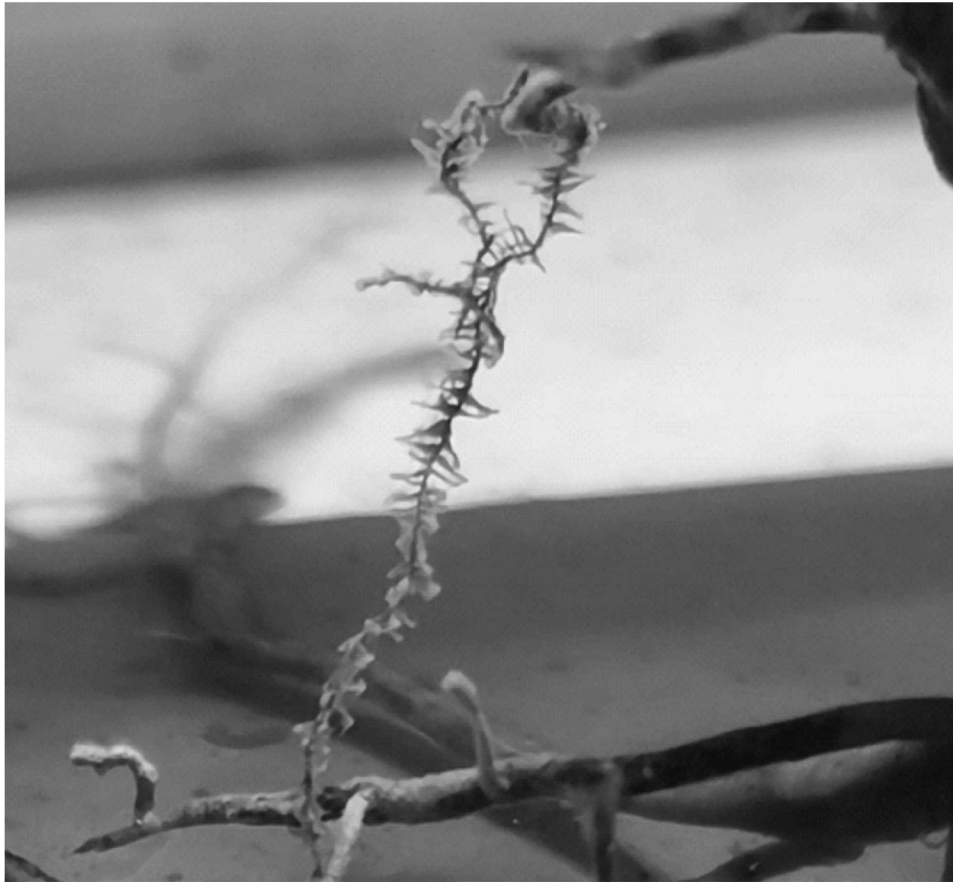


Fig. 59 [Tea tree] Example 13

|  |                     |          |          |             |             |                    |                   |         |
|--|---------------------|----------|----------|-------------|-------------|--------------------|-------------------|---------|
|  | Main Use            | Family   | Genus    | Species     | Common Name | Type of Primordium | Lining Ceramics   | RB type |
|  | Recreational plants | Theaceae | Camellia | C. sinensis | Tea tree    | Seedling           | Marushun Ceramics | RB2     |

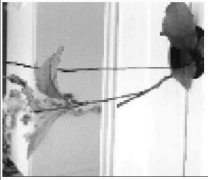
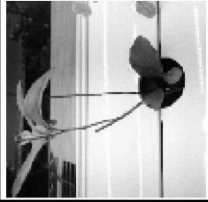
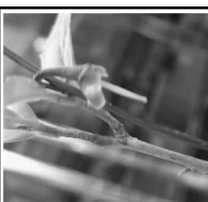
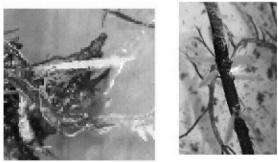
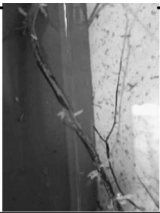
|                                                |                |                                                                                       |                                                                                       |                                                                                       |                                                                                      |                                                                                   |                                                                                     |  |
|------------------------------------------------|----------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|
|                                                | Item           | Day 0<br>Date of Mounting<br>Regeneration<br>Primordium                               | Day 14                                                                                | Day 28                                                                                | Day 35                                                                               | Day 40                                                                            | Day 42                                                                              |  |
|                                                | Year/Month/Day | 2023/8/31                                                                             | 2023/9/14                                                                             | 2023/9/28                                                                             | 2023/10/5                                                                            | 2023/10/10                                                                        | 2023/10/12                                                                          |  |
|                                                | Growth Stage   |                                                                                       |                                                                                       |                                                                                       |                                                                                      |                                                                                   |                                                                                     |  |
|                                                | Remarks        | Lighting for<br>14 hours                                                              |                                                                                       | Enlarging of<br>Flower buds                                                           |                                                                                      | Blooming                                                                          | Falling of<br>the flower                                                            |  |
| Aboveground                                    | Photos         |    |    |    |    |  |    |  |
|                                                | Remarks        | Washing with water<br>roots of seedling in<br>a pot<br>Mounting the seedling          | Elongation of<br>Liquid-phase<br>roots                                                | Appearance of<br>Vapor-phase<br>roots                                                 | Development of<br>Vapor-phase<br>roots/Liquid-<br>phase roots                        |                                                                                   | Appearance/<br>Elongation of<br>Vapor-phase<br>roots                                |  |
| Underground<br>(In the light-<br>shading case) | Photos         |  |  |  |  |                                                                                   |  |  |

Fig. 60

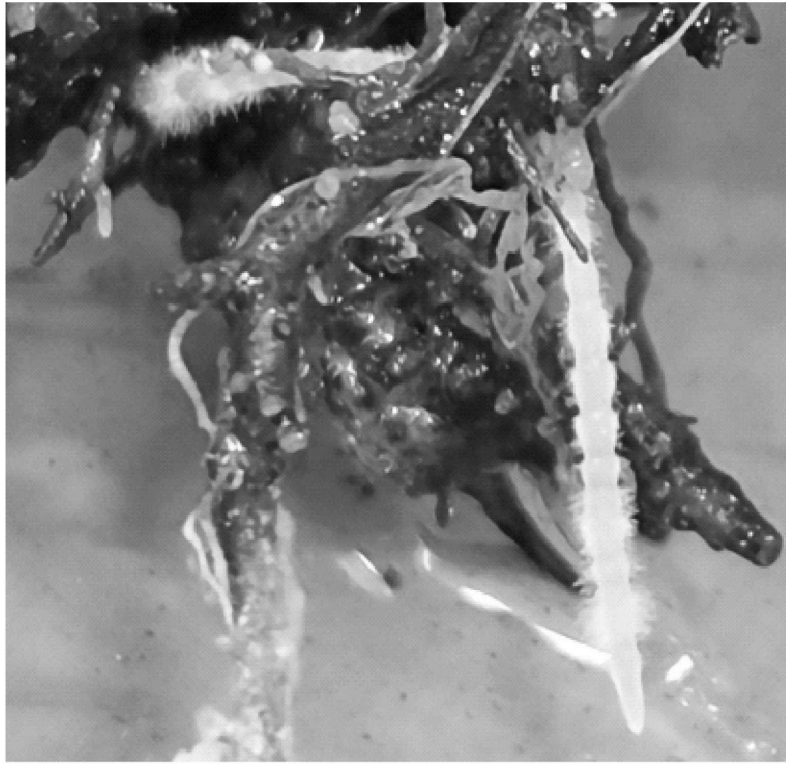


Fig. 61



**Fig. 62** [Passion fruit] Example 14

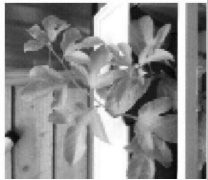
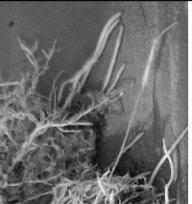
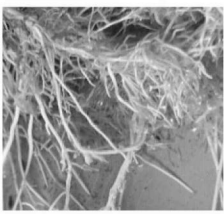
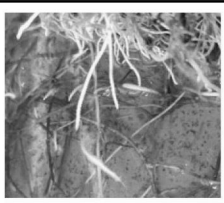
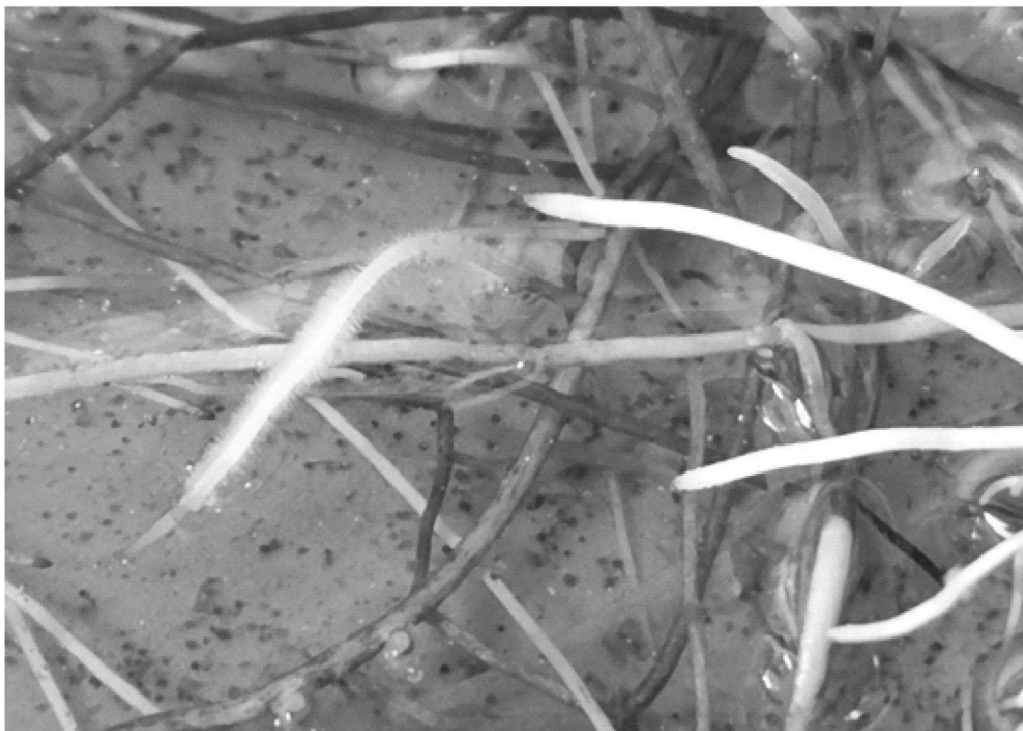
|                                                |                |                                                                                       |                                                                                       |                                                                                       |                                                                                      |                                                                                     |                                                                                     |                                                                                     |
|------------------------------------------------|----------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                | Main Use       | Family                                                                                | Genus                                                                                 | Species                                                                               | Common Name                                                                          | Type of Primordium                                                                  | Lining Ceramics                                                                     | RB type                                                                             |
|                                                | Fruits Trees   | Passifloraceae                                                                        | Passiflora                                                                            | P. edulis                                                                             | Passion fruit                                                                        | Seedling                                                                            | Marushun Ceramics                                                                   | RB2                                                                                 |
|                                                | Item           | Day 0<br>Date of Mounting<br>Regeneration<br>Primordium                               | Day 8                                                                                 | Day 25                                                                                | Day 44                                                                               | Day 59                                                                              | Day 73                                                                              | Day 80                                                                              |
|                                                | Year/Month/Day | 2023/7/24                                                                             | 2023/8/1                                                                              | 2023/8/18                                                                             | 2023/9/6                                                                             | 2023/9/21                                                                           | 2023/10/5                                                                           | 2023/10/12                                                                          |
|                                                | Growth Stage   |                                                                                       |                                                                                       |                                                                                       |                                                                                      |                                                                                     |                                                                                     |                                                                                     |
|                                                | Remarks        | Lighting for<br>14 hours                                                              |                                                                                       |                                                                                       | Improvement in a leaf<br>color due to increase<br>of the root mass                   | Growth of<br>axillary buds                                                          |                                                                                     | Formation of<br>new leaves one<br>after another                                     |
| Aboveground                                    | Photos         |   |                                                                                       |   |   |   |   |   |
| Underground<br>(In the light-<br>shading case) | Remarks        | Washing with water<br>roots of seedling in<br>a pot<br>Mounting the seedling          | Elongation of<br>Liquid-phase<br>roots                                                | Appearance of<br>Vapor-phase<br>roots                                                 |                                                                                      | Confirmation of<br>Vapor-phase roots<br>(above the liquid<br>surface)               | Development of<br>Vapor-phase<br>roots                                              |                                                                                     |
|                                                | Photos         |  |  |  |  |  |  |  |

Fig. 63



Fig. 64



**Fig. 65** [Fig] Example 15

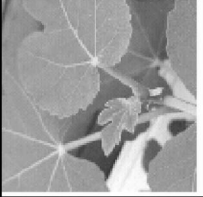
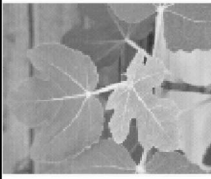
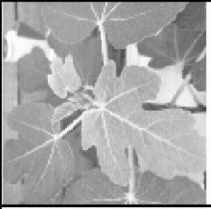
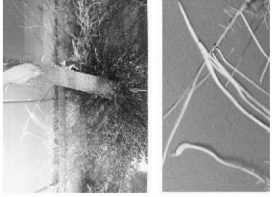
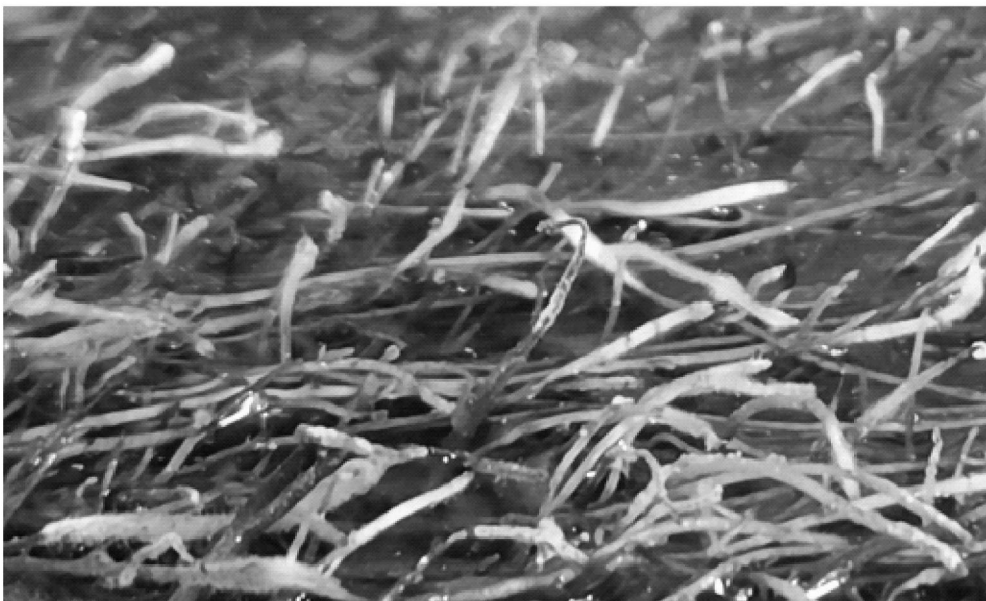
|                                                |                |                                                                                       |                                                                                       |                                                                                       |                                                                                      |                                                                                     |                                                                                     |                                                                                     |
|------------------------------------------------|----------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                | Main Use       | Family                                                                                | Genus                                                                                 | Species                                                                               | Common Name                                                                          | Type of Primordium                                                                  | Lining Ceramics                                                                     | RB type                                                                             |
|                                                | Fruits Trees   | Moraceae                                                                              | Ficus                                                                                 | F. carica                                                                             | Fig                                                                                  | Seedling                                                                            | Marushun Ceramics                                                                   | RB2                                                                                 |
|                                                | Item           | Day 0<br>Date of Mounting<br>Regeneration<br>Primordium                               | Day 8                                                                                 | Day 30                                                                                | Day 36                                                                               | Day 44                                                                              | Day 66                                                                              | Day 79                                                                              |
|                                                | Year/Month/Day | 2023/7/24                                                                             | 2023/8/1                                                                              | 2023/8/23                                                                             | 2023/8/29                                                                            | 2023/9/6                                                                            | 2023/9/28                                                                           | 2023/10/11                                                                          |
|                                                | Growth Stage   | Vegetative growth                                                                     |                                                                                       |                                                                                       |                                                                                      |                                                                                     |                                                                                     |                                                                                     |
|                                                | Remarks        | Lighting for<br>14 hours                                                              | Condition of<br>a top leaf                                                            | Increase in the<br>leaf area of the<br>top leaf                                       |                                                                                      | Appearance of<br>new leaves one<br>after another                                    |                                                                                     |                                                                                     |
| Aboveground                                    | Photos         |    |    |    |                                                                                      |    |    |    |
|                                                | Remarks        | Washing with water<br>roots of seedling in<br>a pot<br>Mounting the seedling          | Appearance of<br>Liquid-phase<br>roots                                                |                                                                                       | Appearance of<br>Vapor-phase<br>roots                                                | Development of<br>Liquid-phase/<br>Vapor-phase<br>roots                             | Development of<br>Vapor-phase roots<br>(above the liquid<br>surface)                | Development of<br>Vapor-phase<br>roots<br>(on the wall)                             |
| Underground<br>(In the light-<br>shading case) | Photos         |  |  |  |  |  |  |  |



Fig. 66



Fig. 67





**Fig. 68** [Chinese licorice] Example 16

|  | Main Use         | Family   | Genus       | Species      | Common Name      | Type of Primordium | Lining Ceramics   | RB type |
|--|------------------|----------|-------------|--------------|------------------|--------------------|-------------------|---------|
|  | Medicinal plants | Fabaceae | Glycyrrhiza | G. uralensis | Chinese licorice | Seedling           | Marushun Ceramics | RB2     |

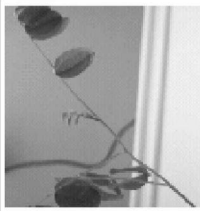
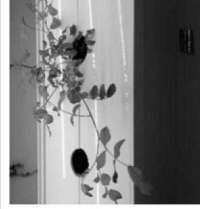
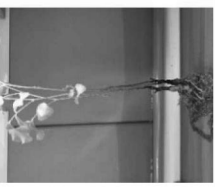
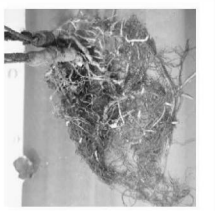
|                                            |                |                                                                                       |                                                                                       |                                                                                       |                                                                                      |                                                                                     |                                                                                     |  |
|--------------------------------------------|----------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|
|                                            | Item           | Day 0<br>Date of Mounting<br>Regeneration<br>Primordium                               | Day 12                                                                                | Day 18                                                                                | Day 40                                                                               | Day 56                                                                              | Day 82                                                                              |  |
|                                            | Year/Month/Day | 2023/7/20                                                                             | 2023/8/1                                                                              | 2023/8/7                                                                              | 2023/8/29                                                                            | 2023/9/14                                                                           | 2023/10/10                                                                          |  |
|                                            | Growth Stage   | Vegetative growth                                                                     |                                                                                       |                                                                                       |                                                                                      |                                                                                     |                                                                                     |  |
|                                            | Remarks        | Lighting for 14 hours                                                                 | Confirmation of new leaves                                                            |                                                                                       |                                                                                      |                                                                                     |                                                                                     |  |
| Aboveground                                | Photos         |   |   |   |   |   |   |  |
|                                            | Remarks        | Washing with water roots of seedlings in a pot<br>Mounting the seedlings              | Elongation of Liquid-phase roots                                                      | Appearance of Vapor-phase roots (above the liquid surface)                            | Enlargement/ Elongation of the taproot part                                          | Sprouting                                                                           | Diameter of the root 10 mm                                                          |  |
| Underground<br>(In the light-shading case) | Photos         |  |  |  |  |  |  |  |
|                                            |                |                                                                                       |                                                                                       |                                                                                       |                                                                                      |                                                                                     |                                                                                     |  |

Fig. 69



Fig. 70



Fig. 71 [Cotton] Example 17

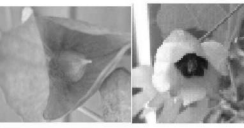
|                                            | Main Use       | Family                                                                                | Genus                                                                                 | Species                                                                               | Common Name                                                                         | Type of Primordium                                                                  | Lining Ceramics                                                                   | RB type |
|--------------------------------------------|----------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|
|                                            | Fiber crops    | Malvaceae                                                                             | Gossypium                                                                             | Gossypium sp.                                                                         | Cotton                                                                              | Seedling                                                                            | Marushun Ceramics                                                                 | RB2     |
|                                            | Item           | Day 0<br>Date of Mounting<br>Regeneration<br>Primordium                               | Day 12                                                                                | Day 26                                                                                | Day 37                                                                              | Day 41                                                                              | Day 61                                                                            |         |
|                                            | Year/Month/Day | 2023/8/11                                                                             | 2023/8/23                                                                             | 2023/9/6                                                                              | 2023/9/17                                                                           | 2023/9/21                                                                           | 2023/10/11                                                                        |         |
|                                            | Growth Stage   |                                                                                       | Reproductive growth                                                                   |                                                                                       |                                                                                     |                                                                                     |                                                                                   |         |
|                                            | Remarks        | Lighting for 14 hours                                                                 | Appearance of Flower Buds                                                             |                                                                                       | Blooming of a first flower                                                          | Fruiting of the first flower<br>Blooming of a second flower                         | Enlarging of the first fruit                                                      |         |
| Aboveground                                | Photos         |   |   |   |  |   |  |         |
|                                            | Remarks        | Washing with water roots of seedling in a pot<br>Mounting the seedling                | Elongation of Liquid-phase roots                                                      | Appearance of Vapor-phase roots (above the liquid surface)                            |                                                                                     |                                                                                     | Development of Vapor-phase roots                                                  |         |
| Underground<br>(In the light-shading case) | Photos         |  |  |  |                                                                                     |  |                                                                                   |         |

Fig. 72



Fig. 73



**Fig. 74** [Cherry tomato] Example 18

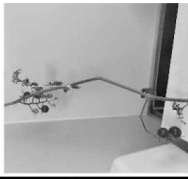
|                                                | Main Use         | Family                                                                                | Genus                                                                                | Species                                                                               | Common Name                                                                             | Type of Primordium                                                                 | Lining Ceramics                                                                    | RB type                                                                                                                 |                                                                                    |
|------------------------------------------------|------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                                | Fruit vegetables | Solanaceae                                                                            | Solanum                                                                              | S. lycopersicum                                                                       | Cherry tomato                                                                           | Seedling                                                                           | Marushun Ceramics                                                                  | RB2                                                                                                                     |                                                                                    |
| Aboveground                                    | Item             |                                                                                       | Day 0<br>Date of Mounting<br>Regeneration<br>Primordium                              | Day 9                                                                                 | Day 16                                                                                  | Day 21                                                                             | Day 39                                                                             | Day 56                                                                                                                  | Day 74                                                                             |
|                                                | Year/Month/Day   | 2023/4/19                                                                             | 2023/4/24                                                                            | 2023/5/3                                                                              | 2023/5/10                                                                               | 2023/5/15                                                                          | 2023/6/2                                                                           | 2023/6/19                                                                                                               | 2023/7/7                                                                           |
|                                                | Growth Stage     |                                                                                       |                                                                                      |                                                                                       |                                                                                         |                                                                                    |                                                                                    |                                                                                                                         |                                                                                    |
|                                                | Remarks          |                                                                                       | Mounting<br>Seedling<br>Lighting for<br>12 hours                                     |                                                                                       | Blooming of a<br>first flower<br>cluster<br>Appearance of<br>a second<br>flower cluster | Fruiting of the<br>first flower<br>cluster                                         | Blooming/<br>Fruiting of the<br>second flower<br>cluster                           | Harvesting the<br>fruits of the first<br>flower cluster<br>5.4 g (Sugar<br>content 7 %)<br>4.3 g (Sugar<br>content 7 %) | Coloring of the<br>fruits of the<br>second flower<br>cluster                       |
|                                                | Photos           |                                                                                       |  |                                                                                       |      |  |  |                                       |  |
| Underground<br>(In the light-<br>shading case) | Remarks          | Washing with<br>water roots of<br>seedling in a pot                                   |                                                                                      | Elongation of<br>Liquid-phase roots<br>Appearance of<br>Vapor-phase roots             |                                                                                         |                                                                                    |                                                                                    |                                                                                                                         |                                                                                    |
|                                                | Photos           |  |                                                                                      |  |                                                                                         |                                                                                    |                                                                                    |                                                                                                                         |                                                                                    |

Fig. 75

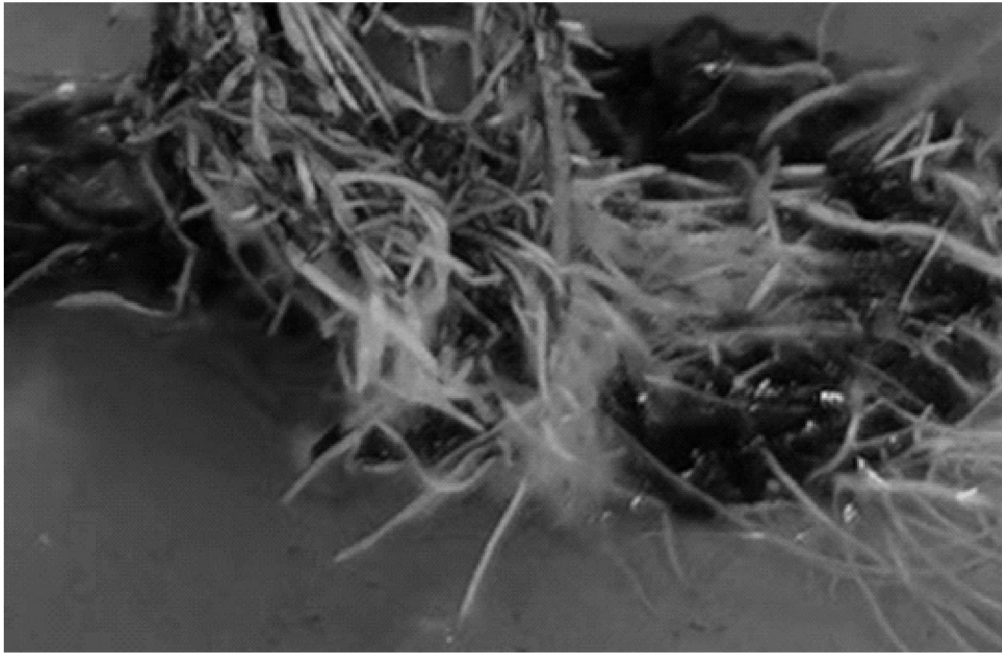


Fig. 76



**Fig. 77** [Cucumber] Example 19

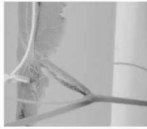
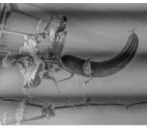
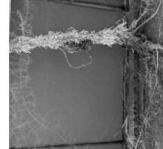
|                                            | Main Use         | Family                                                                                | Genus                                                                                | Species                                                                               | Common Name                                                                          | Type of Primordium                                                                   | Lining Ceramics                                                                     | RB type                                                                            |                                       |                                                                                    |                                      |                                                                                     |
|--------------------------------------------|------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------|
|                                            | Fruit vegetables | Cucurbitaceae                                                                         | Cucumis                                                                              | C. sativus                                                                            | Cucumber                                                                             | Seedling                                                                             | Marushun Ceramics                                                                   | RB2                                                                                |                                       |                                                                                    |                                      |                                                                                     |
|                                            | Item             |                                                                                       | Day 0<br>Date of Mounting<br>Regeneration Primordium                                 | Day 9                                                                                 | Day 16                                                                               | Day 21                                                                               | Day 28                                                                              | Day 56                                                                             | Day 63                                | Day 81                                                                             | Day 107                              | Day 148                                                                             |
|                                            | Year/Month/Day   | 2023/4/19                                                                             | 2023/4/24                                                                            | 2023/5/3                                                                              | 2023/5/10                                                                            | 2023/5/15                                                                            | 2023/5/22                                                                           | 2023/6/19                                                                          | 2023/6/26                             | 2023/7/14                                                                          | 2023/8/9                             | 2023/9/19                                                                           |
|                                            | Growth Stage     |                                                                                       |                                                                                      |                                                                                       | Reproductive growth                                                                  |                                                                                      |                                                                                     |                                                                                    |                                       |                                                                                    |                                      |                                                                                     |
| Aboveground                                | Remarks          |                                                                                       | Mounting Seedling Lighting for 12 hours                                              |                                                                                       | Confirmation of a female flower                                                      | Blooming of the female flower                                                        | Fruiting                                                                            | Harvesting the first fruit (179.3 g)                                               | Harvesting the second fruit (156.2 g) | Harvesting the third fruit                                                         | Harvesting the forth fruit (121.5 g) | Elongation/ Enlargement of the fifth fruit                                          |
|                                            | Photos           |                                                                                       |  |                                                                                       |  |  |  |  |                                       |  |                                      |   |
| Underground<br>(In the light-shading case) | Remarks          | Washing with water roots of seedling in a pot                                         |                                                                                      | Elongation of Liquid-phase roots<br>Appearance of Vapor-phase roots                   |                                                                                      |                                                                                      |                                                                                     |                                                                                    |                                       |                                                                                    |                                      | Development of Vapor-phase roots                                                    |
|                                            | Photos           |  |                                                                                      |  |                                                                                      |                                                                                      |                                                                                     |                                                                                    |                                       |                                                                                    |                                      |  |



Fig. 78

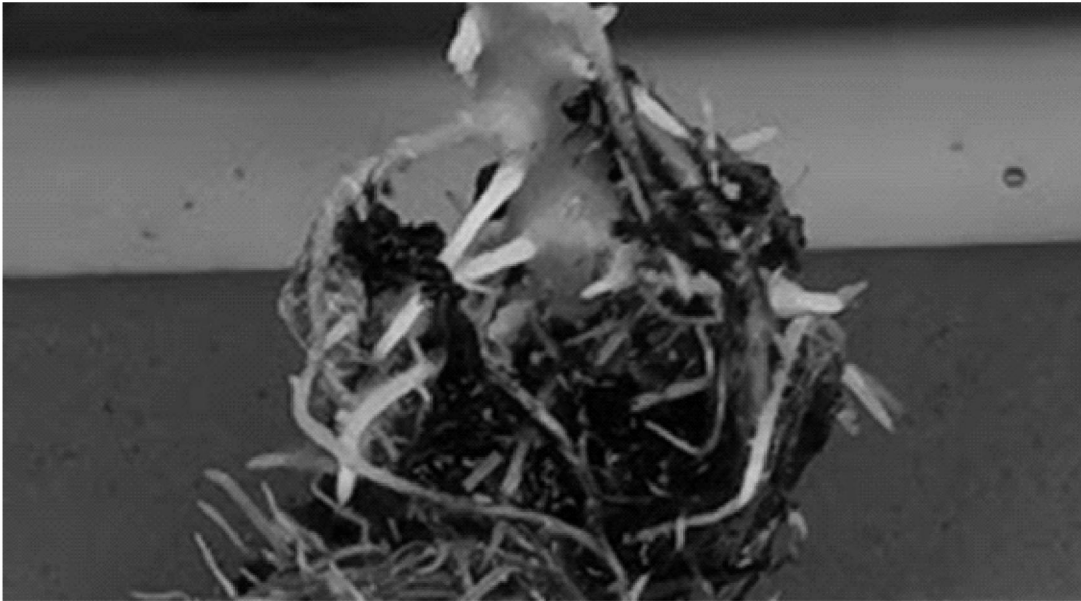
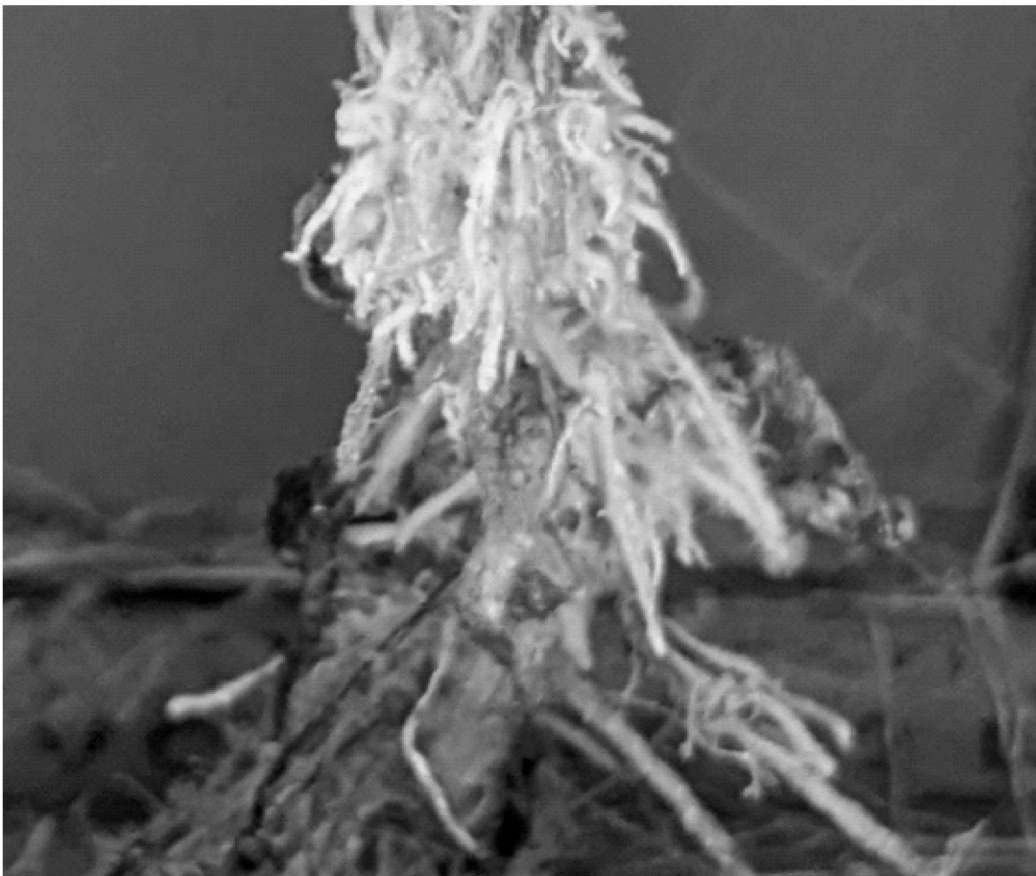


Fig. 79





**Fig. 80** [Eggplant] Example 20

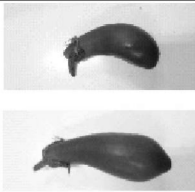
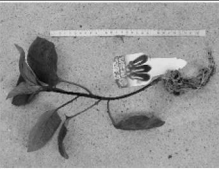
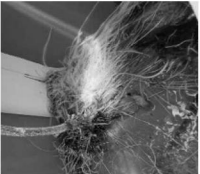
|                                                | Main Use                       | Family                                                                                | Genus                                                                               | Species                                                                               | Common Name                                                                         | Type of Primordium                                                                 | Lining Ceramics                                                                     | RB type                                                                                                                             |
|------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
|                                                | Fruit vegetables               | Solanaceae                                                                            | Solanum                                                                             | S. melongena                                                                          | Eggplant                                                                            | Seedling                                                                           | Marushun Ceramics                                                                   | RB2                                                                                                                                 |
| Aboveground                                    | Item                           |                                                                                       | Day 0<br>Date of Mounting<br>Regeneration<br>Primordium<br>2023/4/24                | Day 9<br>2023/5/3                                                                     | Day 25<br>2023/5/19                                                                 | Day 122<br>2023/8/24                                                               | Day 140<br>2023/9/11                                                                | Day 154<br>2023/9/25                                                                                                                |
|                                                | Year/Month/Day<br>Growth Stage | 2023/4/19                                                                             |                                                                                     |                                                                                       |                                                                                     |                                                                                    |                                                                                     |                                                                                                                                     |
|                                                | Remarks                        |                                                                                       | Mounting Seedling<br>Lighting for<br>12 hours                                       |                                                                                       | Outbreak of<br>Spider mites                                                         | Revival of the<br>plant vigor<br>Blooming                                          | Blooming<br>Fruiting                                                                | Enlargement<br>of the fruit                                                                                                         |
|                                                | Photos                         |                                                                                       |  |                                                                                       |  |  |    |                                                    |
|                                                |                                |                                                                                       |                                                                                     |                                                                                       |                                                                                     |                                                                                    |                                                                                     | Harvesting<br>First: 143.0 g<br>Second: 69.4 g<br> |
| Underground<br>(In the light-<br>shading case) | Remarks                        | Washing with<br>water roots<br>of seedling in<br>a pot                                |                                                                                     | Elongation of<br>Liquid-phase<br>roots<br>Appearance<br>of Vapor-<br>phase roots      |                                                                                     |                                                                                    | Development of<br>Vapor- phase<br>roots                                             |                                                                                                                                     |
|                                                | Photos                         |  |                                                                                     |  |                                                                                     |                                                                                    |  |                                                                                                                                     |
|                                                |                                |                                                                                       |                                                                                     |                                                                                       |                                                                                     |                                                                                    |                                                                                     |                                                                                                                                     |

Fig. 81

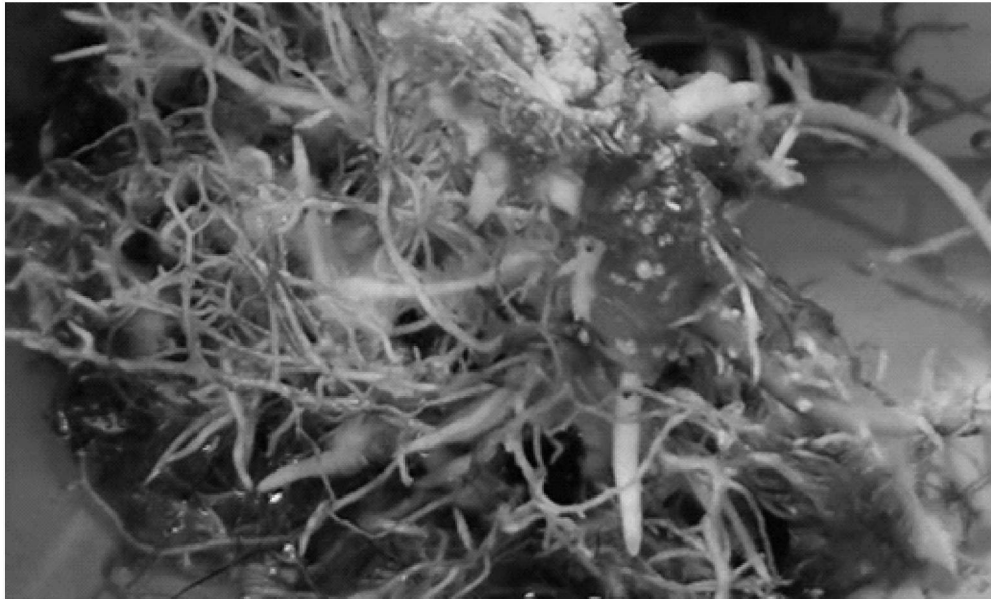


Fig. 82



Fig. 83

[Nasturtium] Example 21

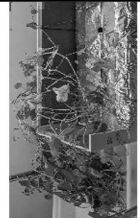
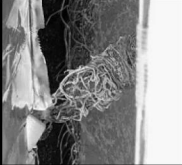
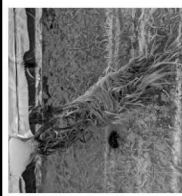
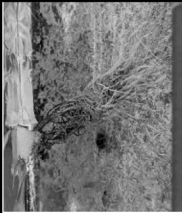
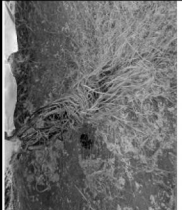
|                                            |                |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                      |                                                                                    |                                                                                    |
|--------------------------------------------|----------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                            | Main Use       | Family                                                                                | Genus                                                                                 | Species                                                                               | Common Name                                                                           | Type of Primordium                                                                   | Lining Ceramics                                                                    | RB type                                                                            |
|                                            | Flowers        | Tropaeolaceae                                                                         | Tropaeolum                                                                            | T. majus                                                                              | Kinrenka (Nasturtium)                                                                 | Seedling                                                                             | Marushun Ceramics                                                                  | RB2                                                                                |
|                                            | Item           | Day 0<br>Date of Mounting<br>Regeneration Primordium                                  | Day 27                                                                                | Day 62                                                                                | Day 72                                                                                | Day 78                                                                               | Day 80                                                                             |                                                                                    |
|                                            | Year/Month/Day | 2023/7/25                                                                             | 2023/8/21                                                                             | 2023/9/25                                                                             | 2023/10/5                                                                             | 2023/10/11                                                                           | 2023/10/13                                                                         |                                                                                    |
|                                            | Growth Stage   |                                                                                       |                                                                                       |                                                                                       |                                                                                       |                                                                                      |                                                                                    |                                                                                    |
| Aboveground                                | Remarks        | Mounting Seedling Lighting for 12 hours                                               | Elongation of Stems                                                                   | Removing lower leaves<br>Protecting the growing leaves with a case                    | Flourishing of leaves                                                                 | Appearance of Flower buds                                                            | Blooming                                                                           |                                                                                    |
|                                            | Photos         |   |   |   |   |   |  |  |
|                                            | Remarks        | Setting a lid at 9.5 cm from the bottom                                               |                                                                                       | Confirmation of Vapor-phase roots                                                     |                                                                                       | Appearance of a lot of vapor-phase roots                                             |                                                                                    |                                                                                    |
| Underground<br>(In the light-shading case) | Photos         |  |  |  |  |  |                                                                                    |                                                                                    |

Fig. 84



Fig. 85



Fig. 86 [Balloon flower] Example 22

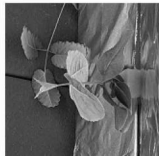
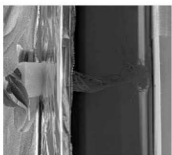
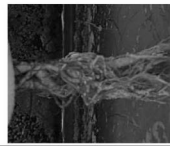
|                                            |                  |                                                                                       |                                                                                       |                                                                                       |                                                                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|--------------------------------------------|------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                            | Main Use         | Family                                                                                | Genus                                                                                 | Species                                                                               | Common Name                                                                          | Type of Primordium                                                                  | Lining Ceramics                                                                     | RB type                                                                             |                                                                                     |
|                                            | Medicinal plants | Campanulaceae                                                                         | Platycodon                                                                            | P. grandiflorus                                                                       | Balloon flower                                                                       | Seedling                                                                            | Marushun Ceramics                                                                   | RB2                                                                                 |                                                                                     |
|                                            | Item             | Day 0<br>Date of Mounting<br>Regeneration Primordium                                  | Day 27                                                                                | Day 52                                                                                | Day 62                                                                               | Day 63                                                                              | Day 69                                                                              | Day 72                                                                              | Day 78                                                                              |
|                                            | Year/Month/Day   | 2023/7/25                                                                             | 2023/8/21                                                                             | 2023/9/15                                                                             | 2023/9/25                                                                            | 2023/9/26                                                                           | 2023/10/2                                                                           | 2023/10/5                                                                           | 2023/10/11                                                                          |
|                                            | Growth Stage     |                                                                                       |                                                                                       | Reproductive growth                                                                   |                                                                                      |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                                            | Remarks          | Mounting Seedling Lighting for 12 hours                                               |                                                                                       | Appearance of Flower buds                                                             | Blooming Defloration (for promoting root enlargement)                                |                                                                                     | Blooming Defloration                                                                |                                                                                     |                                                                                     |
| Aboveground                                | Photos           |   |   |   |  |   |   |   |   |
| Underground<br>(In the light-shading case) | Remarks          | Setting a lid at 9.5 cm from the bottom                                               |                                                                                       |                                                                                       | Appearance of Vapor-phase roots (above the liquid surface)                           | Diameter of the root 9 mm                                                           |                                                                                     | Diameter of the root 9.8 mm                                                         | Diameter of the root 12 mm                                                          |
|                                            | Photos           |  |  |  |  |  |  |  |  |

Fig. 87



Fig. 88



Fig. 89

[Soybean] Example 23

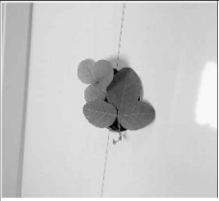
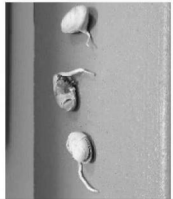
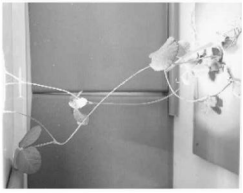
|                                                | Main Use       | Family                                                                                | Genus                                                                                 | Species                                                                               | Common Name                                                                          | Type of Primordium                                                                  | Lining Ceramics                                                                     | RB type |
|------------------------------------------------|----------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|
|                                                | Food crops     | Fabaceae                                                                              | Glycine                                                                               | G. max                                                                                | Soybean, Edamame                                                                     | Seed                                                                                | Marushun Ceramics                                                                   | RB3     |
| Aboveground                                    | Item           | Day 0<br>Date of Mounting<br>Regeneration<br>Primordium                               | Day 1                                                                                 | Day 6                                                                                 | Day 22                                                                               | Day 43                                                                              | Day 50                                                                              |         |
|                                                | Year/Month/Day | 2023/8/23                                                                             | 2023/8/24                                                                             | 2023/8/29                                                                             | 2023/9/14                                                                            | 2023/10/5                                                                           | 2023/10/12                                                                          |         |
|                                                | Growth Stage   |                                                                                       |                                                                                       |                                                                                       |                                                                                      |                                                                                     |                                                                                     |         |
|                                                | Remarks        | Lighting for<br>14 hours                                                              |                                                                                       |                                                                                       |                                                                                      | Passing through<br>the through hole                                                 | Formation of<br>Flower buds                                                         |         |
|                                                | Photos         |                                                                                       |                                                                                       |                                                                                       |                                                                                      |    |    |         |
| Underground<br>(In the light-<br>shading case) | Remarks        | Sowing                                                                                | Rooting                                                                               | Turning Green of<br>Cotyledon parts                                                   | Development of<br>Cotyledons<br>Elongation of<br>Liquid-phase roots                  |                                                                                     | Development of<br>Vapor-phase<br>roots                                              |         |
|                                                | Photos         |  |  |  |  |  |  |         |
|                                                |                |                                                                                       |                                                                                       |                                                                                       |                                                                                      |                                                                                     |                                                                                     |         |



Fig. 90



Fig. 91

