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1. © Cone-shaped pots for straight-root-type tree seedlings. Takemoto, K.
International Plant Propagators' Society, combined proceedings, 2009, 59:118-119. 2010.

Cone-Shaped Pots for Straight-Root-Type Tree Seedlings®

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In Japan, the circling of roots in pots is a troublesome problem in production of straight-root seedlings of tree species **used for the purpose of greening of highway slopes**. When transplanting seedlings, some of the circling roots must be cut off. This decreases the survival rate of transplanted seedlings. To solve this problem, I tried to improve the sowing pot for the tree seedlings. I received much valuable advice from Dr. Yoshichika Takeuchi, professor emeritus of Tottori University, and I made a cone-shaped pot with unwoven cloth (50 g·m⁻²) with a volume equal to a 9-cm-diameter pot (volume about 350 ml; Fig. 1).

Four tree species, *Quercus glauca*, *Rhus succedanea* L., *Celtis sinensis* Pers., and *Mallotus japonicus* (L.f.) Müll. Arg., were tested. I sowed tree seeds directly into the soil in those pots. After 1 year of observation, roots had straight and vigorous growth, and no circling roots were found. I think that this cone-shaped pot is suitable for propagation of straight-root-type seedlings of tree species (Fig. 2).



Figure 1. Cone-shaped pot.