

glomerules very closely about 4–6-flowered. Flowers depressed, very shortly pedicellate, about  $1\frac{1}{2}$  mm. in diameter, but some of them smaller and pistillate. Calyx 5-parted; segments incurved, furfuraceous towards the margins externally, orbicular, herbaceous and green in centre, but broadly hyaline and membranaceous, concave internally, hardly carinate dorsally, 1-nerved. Stamens 5, exserted; filament subulato-filiform; anther rounded, yellow. Ovary depressed-globose; styles 2, exserted, shortly connate at the base. Utricle depressed, included; embryo transverse.

Nom. Jap. *Hosoba-akaza*.

*Hab.* JAPAN (Herb. ! T. MAKINO).

***Lactuca dentata*** (THUNB.) MAKINO in Bot. Mag., Tokyo, XXIV. (1910), p. 75.

*a. Thunbergii* MAKINO.

*Prenanthes dentata* THUNB. Fl. Jap. (1784), p. 301.

*Lactuca Thunbergii* MAXIM. in Mém. Biol. IX. p. 361.

*Lactuca dentata a. flaviflora* subvar. *Thunbergii* MAKINO, l. c. XXIV. (1910), p. 75.

*Lactuca Thunbergii a. flaviflora* MAKINO, l. c. XII. (1898), p. 48.

Nom. Jap. *Niga-na*.

*Hab.* JAPAN, common.

**forma partita** MAKINO, nov.

Leaves deeply pinnatiparted; segments remote, spreading or erect-patent, linear or lanceolate, cuspidato-acuminate, often falcate, entire or scantily ciliato-dentate. Inflorescence, heads and flowers as in the type.

Nom. Jap. *Kikuba-nigana* (nov.).

*Hab.* Prov. SATSUMA: Shiro-yama in Kagoshima (S. KAWAGOE ! Sept. 15, 1910).

**var.  $\beta$ . alpicola** MAKINO.

*Lactuca Thunbergii lusus alpicola* TAKEDA in Bot. Mag., Tokyo, XXIV. (1910), p. 71.

*Lactuca Thunbergii forma alpicola* MAKINO, MSS.

*Lactuca dentata* a. *flaviflora* subvar. *alpicola* MAKINO, l. c. XXIV. (1910), p. 75.

Nom. Jap. *Takane-nigana*.

*Hab.* JAPAN, alpine mountains.

var.  $\gamma$ . *angustifolia* MAKINO.

*Lactuca Thunbergii* var. *angustifolia* MAKINO, l. c. XIX. (1905), p. 154.

*Lactuca dentata* a. *flaviflora* subvar. *angustifolia* MAKINO, l. c. XXIV. (1910), p. 75.

Nom. Jap. *Hosoba-nigana*.

*Hab.* JAPAN, rare.

var.  $\delta$ . *lanceolata* MAKINO, var. nov.

Perennial, about 3 decim. high. Stem erect, loosely ramose above, loosely with linear or linear-lanceolate short-petiolate leaves. Radical leaves lanceolate, petiolate, acuminate at the apex, gradually attenuated at the base, repand with a mucronate tip, thickly membranaceous, glabrous, green above, paler beneath, about 12–17 cm. long,  $1\frac{1}{2}$ – $2\frac{1}{2}$  cm. broad; veins inconspicuous; petiole 3–5 cm. long. Heads numerous, small, about 8 mm. long, yellow; involucre 5–6 mm. long, nigrescent. Flowers about 11; ligule denticulate at the apex. Achenes linear-fusiform, attenuated into a setaceous elongate beak above, striate, fulvous; pappus ochroleucous.

Nom. Jap. *Yanagi-nigana* (nov.).

*Hab.* KIUSIU: Yaku-shima? (Herb. ! T. MAKINO, Aug. 1912, commun. Z. TASHIRO).

A remarkable variety.

var.  $\epsilon$ . *albiflora* MAKINO, l. c. XXIV. (1910), p. 76.

*Lactuca Thunbergii* var.  $\beta$ . *albiflora* MAKINO, l. c. XII. (1898), p. 48.

? *Ixeris albiflora* A. GRAY, Bot. Jap. p. 397.

Nom. Jap. *Shirobana-nigana*.

*Hab.* JAPAN, not uncommon.

(To be continued.)