1. ***Orthodontium lignicola*** (Broth.) Da-cheng Zhang *in* X.-J. Li ju bian zhi chi xian

Fl. Yunnanica 18: 385. 2002. *Funaria lignicola* Broth., Symb. Sin 4: 48. 1929. Type: China. Yunnan, St. Unter der Hütte Maoniubi am Berge Waha bei Yungning, alt. 3800–4030 m, *Handel-Mazzetti 7137* (holotype H).

*Orthodontium bilimbatum* X.-J. Li & D.-C. Zhang *in* D.-C. Zhang & X.-J. Li, Acta Bot. Yunnan. 18(4): 416. 1996. Type: China. Yunnan, Zhong-dian Co., Tianchi, alt. 3750 m, *D.-C. Zhang 138* (holotype HKAS).

*Plants* small, 4–6 mm high, fragile, green or yellowish green, slightly glossy, in loose or dense tufts. *Stems* simple or branched from the base, with dense hyaline or brownish rhizoids. *Leaves* flexuose or twisted when dry, erect-spreading when moist, narrowly oblong-lanceolate or linear, keeled, narrowed at base, shortly acuminate at apex, 2.5–4.5 mm × 0.4–0.6 mm, basal stem leaves smaller; margins plane, serrulate above the middle, borders distinctly differentiated except at base and apex, with (1–)2–3 rows of elongate, thick-walled cells, bistratose; costae ending just below the apex; median leaf cells oblong-hexagonal, 60–100 µm × 18–24 µm, shorter near the apex; basal cells loose, clearly larger than the cells above, oblong-rectangular, nearly quadrate close to the base. *Gemmae* pale brown, 2–5 cells long, mixed with rhizoids. *Synoicous*. *Antheridia* and perichaetia in leaf axils. *Setae* 5–8 mm long, curved above; capsules suberect, elongate-pyriform or elongate-ovoid, neck distinctly developed, grooved when dry; mouth smaller than urn; stomata present; exothecial cells thin-walled; opercula conic, shortly rostrate or blunt; annuli absent; peristome double; exostome teeth hyaline, rather short; endostome segments pale yellowish brown, linear, perforate below; basal membrane absent. *Spores* 13–17 µm in diameter, papillose.