Fissidens zollingeri Mont., Ann. Sci. Nat., Bot., sér. 3, 4: 114 (1845)
T: Java [Indonesia], Zollinger 1604; holo: PC n.v., fide C.Müller (1848). [Zhi-Hua Li (1985) remarked that "no Fissidens could be found among these plants".]
Fissidens xiphioides M.Fleisch., Hedwigia 38: 125 (1899). T: Buitenzorg [Bogor], Java, [Indonesia], M.Fleischer; lecto: FH n.v., fide Z.Iwatsuki \& T.Suzuki, op. cit. 367 (1982).

Illustrations: H.C.Gangulee, Mosses E. India 479, fig. 220; 481, fig. 221 (1971), as F. xiphioides; Z.Iwatsuki \& T.Suzuki, op. cit. 459, pl. 13 (1982).

Synoicous. Plants $\pm$ flabelliform or elongate, $2-6 \mathrm{~mm}$ tall, $1.8-2.5 \mathrm{~mm}$ wide; axillary hyaline nodules prominent. Leaves $\pm$ oblong, $1.5-1.8 \mathrm{~mm}$ long, $0.35-0.45 \mathrm{~mm}$ wide; limbidium narrow, $\pm$ complete to the acute apex; costa percurrent to excurrent. Vaginant laminae reaching mid-leaf, closed. Dorsal lamina often ending in a rounded lobe at the base; laminal cells irregularly hexagonal, $12-25 \times 10-15 \mu \mathrm{~m}$, those at base of vaginant laminae to $50 \mu \mathrm{~m}$ long. Green multicellular filamentous propagula present on protonemata and, occasionally, in leaf axils.
Setae $2-3 \mathrm{~mm}$ long. Capsules symmetrical, erect; theca oblong-elliptical, $0.5-1.0 \mathrm{~mm}$ long; operculum conical-rostrate.

Occurs in N.T, Qld and north-eastern N.S.W.; grows on shaded or semi-shaded damp soil, occasionally on rock. Widespread in tropical and subtropical Asia, from India to Japan, Oceania and South America.
N.T.: Conder Pt, Melville Is., H.Streimann 42497 (CANB, NY); Kakadu Natl Park, L.A.Craven \& G.Whitbread 6771 (CANB). Qld: Bizant, Lakefield Natl Park, I.G.Stone 23828 (MEL); Mount Elliot Natl Park, I.G.Stone 8425 (MEL). N.S.W.: Pholis Gap, Nightcap Natl Park, 13 June 1983, H.S.Curtis (MEL).
Similar to $F$. curvatus, but differs in the occurrence of axillary propagula in leaves, a synoicous inflorescence, erect capsules and scariosus-type peristome. We follow Pursell (1988) in including $F$. zollingeri in sect. Areofissidens rather than sect. Fissidens because of the large juxtacostal cells and scariosus-type peristome.

