

Comments on the typification of two names in *Bauhinia*, now under *Phanera* (Leguminosae: Cercidoideae)

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ABSTRACT

A lectotype is designated here for *Bauhinia cardinalis*, the basionym of *Phanera cardinalis* and a second-step lectotype is designated here for *B. penicilliloba*, the basionym of *P. penicilliloba*.

KEYWORDS: Fabaceae, *Lasiobema*, lectotype.

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INTRODUCTION

Sinou *et al.* (2020) made a few new combinations under *Phanera* Lour. based on the names of *Bauhinia* L. species which were at times also recognized under *Lasiobema* (Korth.) Miq. as accepted names. Sinou *et al.* (2020) based these new combinations on their phylogenetic analysis, but did not address the typification of these names.

In the present paper the typification of two of these names in *Bauhinia*, viz., *B. cardinalis* Pierre ex Gagnep. and *B. penicilliloba* Pierre ex Gagnep., are discussed.

1. *Phanera cardinalis* (Pierre ex Gagnep.) Sinou & Bruneau, *Taxon* 69(1): 80. 2020.— *Bauhinia cardinalis* Pierre ex Gagnep., *Notul. Syst. (Paris)* 2: 170. 1912.— *Lasiobema cardinale* (Pierre ex Gagnep.) de Wit, *Reinwardtia* 3(4): 423. 1956. Type: Chochinchine, Cai-cong, 1862–1866, *Thorel 1450* (lectotype **P** [P00798458] image!, designated here).

Notes.— Gagnepain (1912), in the protologue of *Bauhinia cardinalis*, cited the following collections: ‘Chochinchine: Tay-ninh, Cay-cong et Baria, *No. 1890* [*Pierre*]; Cay-cong, *No. 724 et 1450* [*Thorel*]’.

According to Stafleu & Cowan (1976), the herbarium and types of François Gagnepain are at **P**. Larsen & Larsen (1980), in their *Flore du Cambodge du Laos et du Viêt Nam* account, cited ‘TYPE: *Pierre 1890, P*’. In addition to *Thorel 724* (P00798456, P00798457, images!) and *Thorel 1450* (P00798458, image!) there are three collections of *L. Pierre* [Chochinchina, ad Cay Cong in Proef. Tay Ninh] with the same number *1890* at **P** [P00798455, P00798459, P00798460, images!] but collected at different times [4(?) / 1868, 4 / 1866 and 9 / 1878, respectively] and thus they do not constitute a single gathering. We would not consider the citation of ‘*Pierre 1890, P*’ as an inadvertent lectotypification (see Art. 9.11, Turland *et al.*, 2018) by Larsen & Larsen (1980) because it cannot be determined which particular specimen at **P** was cited by them. Furthermore, it has been evidenced here that *1890* is not the field number of the collections of *L. Pierre* because we have also seen collections of 12 / 1866 from the location ad / prope Baria at **E** (E00313570, image!), **G** (G00359961, image!), **K** (K000760830, image!) and **MPU** (MPU023778, image!) with the same number, i.e. *1890*. In our opinion, *1890* is the species number given by *L. Pierre* to his collections of the same species at different times. So, the name

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B. cardinalis was not effectively lectotypified by Larsen & Larsen (1980) because the three specimens of *Pierre 1890* at **P** evidently belong to different gatherings. We, therefore, designate here *Thorel 1450*, a specimen with leaves and an inflorescence with flower buds and flowers, as the lectotype.

Distribution.— Cambodia, Laos and Vietnam.

2. *Phanera penicilliloba* (Pierre ex Gagnep.) Sinou & Bruneau, *Taxon* 69(1): 80. 2020.— *Bauhinia penicilliloba* Pierre ex Gagnep., *Notul. Syst.* (Paris) 2: 177. 1912.— *Lasiobema penicillilobum* (Pierre ex Gagnep.) A. Schmitz, *Bull. Soc. Roy. Bot. Belgique* 110(1–2): 13. 1977. Type: Cambodge, Strung-treng, 1866–1868 (printed on the label), *Thorel 2149* (lectotype **P** [first-step], designated by Larsen & Larsen, 1980; lectotype [second-step] **P** [P00798530] image!, designated here; isolectotype **P** [P00798531] image!).

Notes.— Gagnepain (1912), in the protologue of *Bauhinia penicilliloba*, cited the following collections: ‘Laos: Strung-treng, *No. 2149* [*Thorel*]; bords du Mékong [*Harmand*].— Cambodge: Angkor, *No. 6009* [herb. Pierre]’; subsequently, Larsen & Larsen (1980) cited ‘TYPE: *Thorel 2149*, **P**’. There are two relevant collections of *Thorel 2149* at **P** (P00798530, P00798531, images!). As a part of curatorial work, a printed ‘TYPE’ label has been attached to P00798530 whereas P00798531 has a printed ‘ISOTYPE’ label. A determinavit slip attached to P00798531 in 1976 bears the name ‘*Bauhinia penicilliloba* Pierre ex Gagnep.’ in the handwriting of S.S. Larsen but not annotated by her as ‘Type’. Thus it cannot be accepted as the choice of the Larsens as the type. So, we have considered here the citation of ‘TYPE : *Thorel 2149*, **P**’ by Larsen & Larsen (1980) as an inadvertent first-step lectotypification (see Art. 9.11, Turland *et al.*, 2018) by Larsen & Larsen (1980).

Distribution.— Cambodia, Laos, Thailand and Vietnam.

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