



Second-Step Lectotypification of Bauhinia Khasiana Baker (Leguminosae: Caesalpinioideae)

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Second-step lectotypification of *Bauhinia khasiana* Baker (Leguminosae: Caesalpinioideae)

Subir Bandyopadhyay

Abstract

BANDYOPADHYAY, S. (2013). Second-step lectotypification of *Bauhinia khasiana* Baker (Leguminosae: Caesalpinioideae). *Candollea* 68: 99-103. In English, English and French abstracts.

A specimen at K is designated here as the second-step lectotype of the name *Bauhinia khasiana* Baker (Leguminosae: Caesalpinioideae).

Key-words

LEGUMINOSAE – *Bauhinia* – Second-step lectotypification

Résumé

BANDYOPADHYAY, S. (2013). Seconde étape de la lectotypification du nom de *Bauhinia khasiana* Baker (Leguminosae: Caesalpinioideae). *Candollea* 68: 99-103. En anglais, résumé anglais et français.

Un spécimen de K est désigné comme lectotype de seconde étape pour le nom de *Bauhinia khasiana* Baker (Leguminosae: Caesalpinioideae).

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BAKER (1878: 281) in the protologue of *Bauhinia khasiana* Baker (*Leguminosae: Caesalpinioideae*) cited “Khasia hills, alt. 1-3000 ft., *Hook. fil. & Thomson*” along with the morphological description.

From STAFLEU & COWAN (1976: 104), it is known that Baker’s types are mainly at K and WELT.

There is no specimen of *Bauhinia* L. in Baker’s collection at WELT. However, parts of the Baker’s collection are yet to be sorted. The Baker’s herbarium at WELT consists of material collected by Baker and others in the 1840’s to 1860’s, primarily from Britain and Europe (NEW ZEALAND NATIONAL HERBARIUM NETWORK, 2012). So probably material from Khasia, India is not present in the unsorted part.

There are two relevant sheets at K. Details of these collections at K and some other herbaria are given in Table 1.

THOTHATHRI (1965: 131) under *Phanera khasiana* (Baker) Thoth. cited a list of specimens examined and included in it “Khasia Hills, 1000 m. – *Hook.f. & Thomson* s.n. (isotype in CAL)”. He also annotated this specimen with leaves and immature inflorescence, having barcode number [CAL0000011245], as “Isotypus (*Bauhinia khasiana* Baker)” in 1965.

LARSEN & LARSEN (1980: 189) cited “Type: *Hooker f. & Thomson* s.n., Inde (Khasia), K”. It is to be noted that they labeled the specimens at NHN-L, P and S as isotype (Table 1). However, none of the sheets at K has been annotated as type by Kai Larsen & Supee S. Larsen, although the determinavit slips attached by them in 1977 bear the name *B. khasiana* Baker subsp. *khasiana* in the handwriting of S. S. Larsen.

ZHANG & ZHU (2006) cited “Type: India. Mt. Khasia: *Hooker & Thomson* s.n. (holotype, K!; isotype, U!)”. They have, however, not given a clue in their publication so that one can find out the holotype examined by them at K. No other specimen at K has been also annotated by them accordingly. Dr. Nicolien Sol (*pers. comm.*), however, informed that there is no such specimen at U.

The choice of LARSEN & LARSEN (1980: 189) at K, made before 1st January 2001, has to be accepted as effective lectotypification. It supersedes the CAL specimen cited as “isotype” by THOTHATHRI (1965: 131) because this latter considers the CAL specimen as an isotype, i.e. a duplicate of the type. It must be kept in mind that Baker was Keeper at Kew, and that the Kew collections were, *prima facie*, the material on which Baker based the description.

As there is no evidence that Baker used only one specimen for describing the species, the type citation by LARSEN & LARSEN (1980) has to be accepted as the first-step lectotype as it cannot be ascertained which of the specimens at K was selected by them as lectotype. Thus a second-step lectotype has to be designated following MCNEILL & al. (2006, Art. 9.15).

Bauhinia khasiana Baker in Hook. f., Fl. Brit. India 2: 281. 1878.

Lectotypus (first-step, designated by LARSEN & LARSEN, 1980): “Hab. Khasia. Regio trop. Alt. 1-3000 ped”, *J. D. Hooker & T. Thomson* s.n. (K [K000496925, K000496926], [photo]!).

Lectotypus (second-step, here designated): “Hab. Khasia. Regio trop. Alt. 1-3000 ped”, *J. D. Hooker & T. Thomson* s.n. (K [K000496926], [photo]!; iso-: BM [BM001010600] [photo]!, CAL [CAL0000011245]!, MH [MH65851]!, NHN-L [L0018741] [photo]!, P [P030134-6] [photo]!, S [S-G-896] [photo]!) (Fig. 1).

In the protologue of *B. khasiana* (BAKER, 1878) the species has been stated to be “ecirrhose”. This is, however, not correct. Although the collections of *J. D. Hooker & T. Thomson* s.n. at K are definitely “ecirrhose”, this species is actually a liana with tendrils. However a relevant collection of *J. D. Hooker & T. Thomson* s.n. at S has tendril in it.

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Table 1. – Details of herbaria collections of *Bauhinia khasiana* Baker (collections J. D. Hooker & T. Thomson s.n. from Khasia hills).

Herbaria	Barcode/Herbarium number	Data recorded on the original label	Annotations added on the herbarium sheet
BM	[BM001010600]	<i>Phanera rufa</i> Bth, Khasia, 1-3000 ped, J. D. Hooker & T. Thomson s.n.	<i>Bauhinia khasiana</i> Baker, det. Kai Larsen & Supee S. Larsen, 1979
CAL	[CAL0000011245]	<i>Phanera rufa</i> Bth., Khasia, 1-3000 ped, J. D. Hooker & T. Thomson s.n. [it is written " <i>Bauhinia khasiana</i> Baker" on the sheet by crossing out the name " <i>rufa</i> " with a pen]	<i>Phanera khasiana</i> (Baker) Thoth. Isotypus (<i>Bauhinia khasiana</i> Baker). Determinavit K. Thothathri, 1965. <i>Bauhinia khasiana</i> Baker. Duplicate of the type in K. Det. Subir Bandyopadhyay, 12.8.1994
K	[K000496925]	Note: The herbarium label is: " <i>Phanera rufa</i> Bth, Khasia, 1-3000 ped, J. D. Hooker & T. Thomson s.n." and has been pasted close to the left hand side bottom corner near the flowering specimen. Initially the name <i>B. Hookeri</i> Baker was written near this specimen. Then someone has written <i>khasiana</i> by crossing out <i>Hookeri</i> with a pencil. On a piece of paper, affixed on the left hand side top corner near the specimen only with two leaves, it is written as <i>Bauhinia</i> , Scanden(?), Chura(?), 2000 ft, Nov.(?), 15/50. The sheet bears the stamp 'HERBARIUM HOOKERIANUM 1867'	<i>Bauhinia khasiana</i> Baker subsp. <i>khasiana</i> , det. Kai Larsen & Supee S. Larsen, 1977
K	[K000496926]	Note: The herbarium label is: " <i>Phanera rufa</i> Bth, Khasia, 1-3000 ped, J. D. Hooker & T. Thomson s.n." and has been found to be pasted on the left hand side top corner near a flowering specimen. On a piece of paper, affixed on the left hand side margin of the sheet at bottom corner near another flowering specimen, it is written as 1685, <i>Phanera</i> , <i>Bauhinia</i> , fl. [illegible] turning red, Scandent (?), [illegible], July 13/50. Initially the name <i>B. Hookeri</i> Baker was written near this specimen. Then someone has written " <i>khasiana</i> Fl. Ind II 281" by crossing out <i>Hookeri</i> with a pencil. The sheet bears the stamp 'HERBARIUM HOOKERIANUM 1867'	<i>Bauhinia khasiana</i> Baker subsp. <i>khasiana</i> , det. Kai Larsen & Supee S. Larsen, 1977
MH	[MH65851]	<i>Phanera rufa</i> Bth., Khasia, 1-3000 ped, J. D. Hooker & T. Thomson s.n.	<i>Bauhinia khasiana</i> Baker subsp. <i>khasiana</i> , isolectotype. Det. Subir Bandyopadhyay, 24.1.2011
NHN-L	[L0018741]	<i>Phanera rufa</i> Bth., Khasia, 1-3000 ped, J. D. Hooker & T. Thomson s.n.	<i>Phanera rufa</i> Bth., det. H. C. D. de Wit, July 1951. <i>Bauhinia khasiana</i> Baker subsp. <i>khasiana</i> , det. Kai Larsen & Supee S. Larsen, 1977, isotype [Another label of red colour affixed by herb L shows it to be an isotype]
P	[P030134]	<i>Phanera rufa</i> Bth., Khasia, 1-3000 ped, J. D. Hooker & T. Thomson s.n.	<i>Bauhinia khasiana</i> Baker subsp. <i>khasiana</i> , det. Kai Larsen & Supee S. Larsen, 1977, isotype
P	[P030135]	<i>Phanera rufa</i> Bth., Khasia, 1-3000 ped, J. D. Hooker & T. Thomson s.n.	<i>Bauhinia khasiana</i> Baker subsp. <i>khasiana</i> , det. Kai Larsen & Supee S. Larsen, 1977, isotype
P	[P030136]	<i>Phanera rufa</i> Bth., Khasia, 1-3000 ped, J. D. Hooker & T. Thomson s.n.	<i>Bauhinia khasiana</i> Baker subsp. <i>khasiana</i> , det. Kai Larsen & Supee S. Larsen, 1977, isotype
S	[S-G-896]	<i>Phanera rufa</i> Bth., Khasia, 1-3000 ped, J. D. Hooker & T. Thomson s.n. [it is written " <i>B. rufa</i> R. Grah." on the sheet]	<i>Bauhinia khasiana</i> Baker subsp. <i>khasiana</i> , det. Kai Larsen & Supee S. Larsen, 197_ [sic], isotype

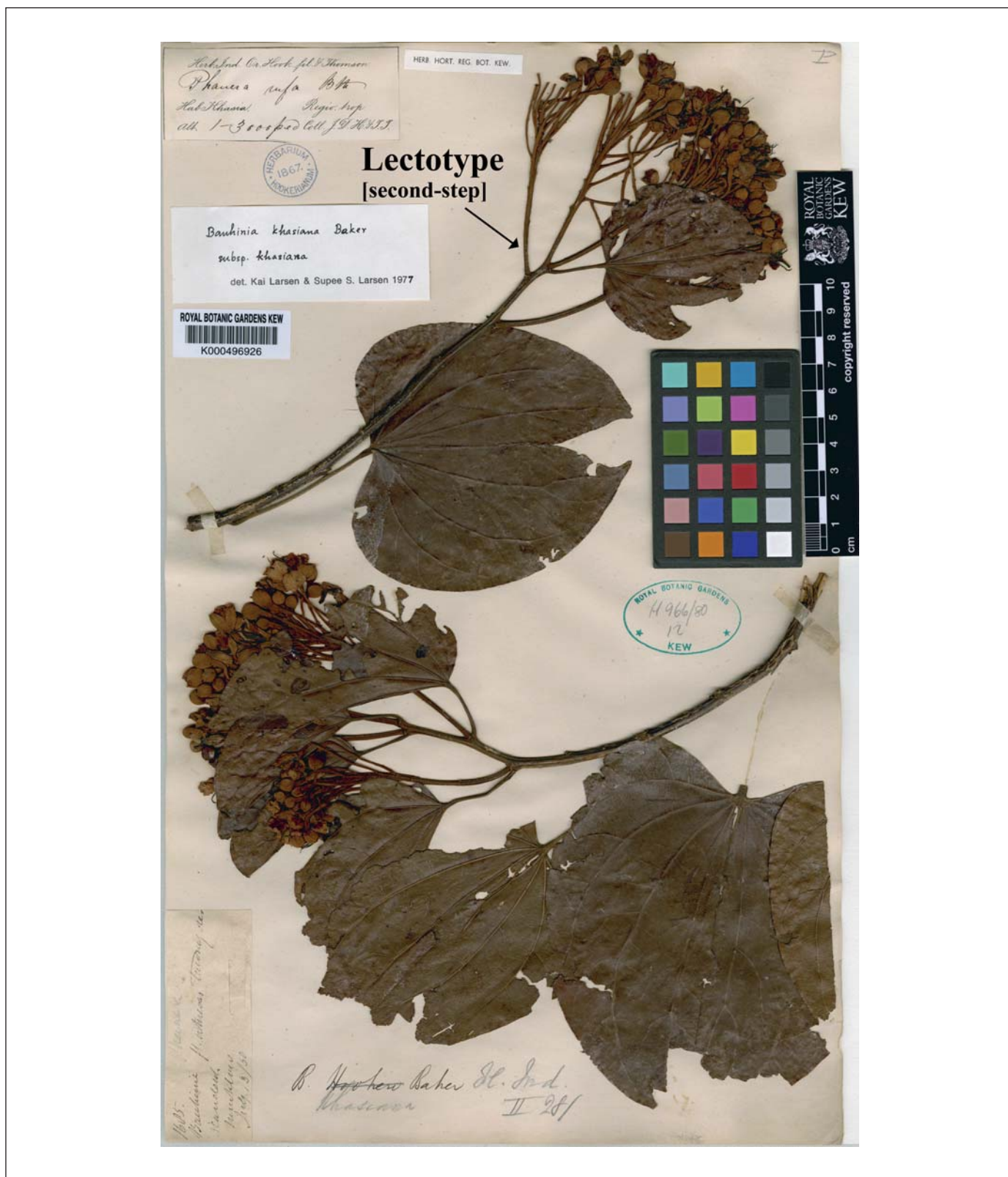


Fig. 1. – Lectotype (second-step) of *Bauhinia khasiana* Baker (designated by an arrow).

[J. D. Hooker & T. Thomson s.n., K] © The Board of Trustees of the Royal Botanic Gardens, Kew. Reproduced with permission]

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