

VALIDATION OF THE FOSSIL ANGIOSPERM FLOWER GENUS *EXALLOANTHUM* POINAR IN MYANMAR AMBER

Umakant Bhoopati Deshmukh

Department of Botany, Janata Mahavidyalaya

Chandrapur – 442 401, Maharashtra, INDIA

deshmukhumakant979@gmail.com; <https://orcid.org/0000-0002-7489-7645>

ABSTRACT

The recently published new replacement name *Exalloanthum* Poinar for a fossil angiosperm flower genus was not validly published (Art.41. 5 of ICN) because it was referenced by the whole article and not the single page with the basionym only. Therefore, new genus name *Exalloanthum* Poinar and *E. burmense* Poinar combination are validated here by providing the exact basionym page number.

RESUMEN

El nuevo nombre de reemplazo recientemente publicado *Exalloanthum* Poinar para un género de flores de angiospermas fósiles no se publicó válidamente (Art. 41. 5 de ICN) porque se hace referencia a él en todo el artículo y no en la página única con el basiónimo únicamente. Por lo tanto, la combinación del nuevo nombre de género *Exalloanthum* Poinar y *E. burmense* Poinar se valida aquí proporcionando el número de página exacto del basiónimo.

INTRODUCTION

Poinar (2018) described an extremely interesting new fossil angiosperm flower in the genus *Diaphoranthus* Poinar in Burmese amber with a single type species *D. burmensis* Poinar showing distinct morphological features not observed in extant angiosperms.

SYSTEMATIC TREATMENT

In the above paper (Poinar 2018), the newly described extinct angiosperm flower in the genus *Diaphoranthus* Poinar was later discovered to be homonym of the previously validly published extant Asteraceae genus *Diaphoranthus* Meyen (Meyen 1834) according to Art.53.1 of ICN (Turland et al. 2018). Therefore Poinar (2019) provided the new replacement name *Exalloanthum* Poinar for *Diaphoranthus* Poinar. This new replacement name of the genus *Exalloanthum* Poinar was not validly published at that time (Art.41. 5 of ICN) because it was referenced by the whole article and not the single page with the basionym only (Turland et al. 2018).

Article 41.5 states that “On or after 1 January 2007, a new combination, name at new rank, or replacement name is not validly published unless its basionym or replaced synonym is clearly indicated and a full and direct reference given to its author and place of valid publication, with page or plate reference and date.” Therefore, the new genus name *Exalloanthum* Poinar and *E. burmense* Poinar combination are validated here by providing the exact basionym page number.

***Exalloanthum* Poinar, nom. nov.** BASIONYM: *Diaphoranthus* Poinar, In: B. Welch & M. Wilkerson, eds. Recent Advances in Plant Research. Nova Science Publishers, New York, U.S.A. 196. 2018. Not *Diaphoranthus* Meyen, Reise Erde 1:406.1834.

***Exalloanthum burmense* Poinar, comb. nov.** BASIONYM: *Diaphoranthus burmensis* Poinar, in: B. Welch & M. Wilkerson, eds. Recent Advances in Plant Research. Nova Science Publishers, New York, U.S.A. 196. 2018. TYPE: MYANMAR (BURMA). Kachin: amber mine in the Hukawng Valley SW of Maingkhwan, 26°20'N, 96°36'E, horizon, uppermost Albian-lowermost Cenomanian (mid-Cretaceous)(97–110 Mya), 2018, unknown amber miner s.n. (HOLOTYPE: Curatorial # B-An-4 deposited in the Poinar amber collection maintained at Oregon State University, Corvallis, Oregon 97331, U.S.A.).

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