

now of such groups as *Deyeuxia* and *Psamma* apart from *Calamagrostis*. And when the principles carried out in the "Genera Plantarum" are applied to Agrostidaceæ and Cyperaceæ, they cannot fail, so far as I am able to judge dispassionately, to lead to considerable reductions, in the spirit of those I have suggested of late years.

I may here note a curious error of Nees' as to *Arundo bifaria*. He quotes under it as a synonym, "*A. triflora*, Roxb. Fl. Ind. i., 317." With that fatal facility for copying which renders it so unsafe to rely on many modern scientific works in matters of reference, Miquel transcribes this, altering the page of the book alleged to be cited to 39. Now I have before me both the first edition of Roxburgh's Flora, with Wallich's occasional additions, and the one published later by his two sons; and, though *A. bifaria* is characterised and described at page 347 in each, no such name as *A. triflora* is to be found at all. How this imaginary synonym came to be evolved I have no idea.

## NEW PALMS COLLECTED IN THE VALLEY OF THE AMAZON IN NORTH BRAZIL, IN 1874.

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(Continued from p. 10.)

27. *B. Juruensis* (Trail hb. Palm., 165).—Humilis, aculeata; caudice  $6^m-1^m \times .01^m$ , aculeis nigris  $.01^m$  sparse armato; foliis  $.75^m-.90^m$  interrupte pinnatis, ad vaginas petiolosque aculeis compressis,  $010^m-.025^m$ , 1-3-natis aggregatis, unaquoque apice basique spadiceo medio pallidiore, armatis; foliis junioribus ad petiolos tomento albedo caduco vestitis; pinnis 4-6-jugis, solitariis vel binatim aggregatis, falcato-lanceolatis, longe acuminatis, apicalibus latioribus, supra glabris, subtus ad venas secundarias pubescentia brevissima badia obsitis, ad margines setoso-ciliatis, et ad apicem penicillatis, mediis  $.18^m-.23^m \times .025^m-.035^m$ , apicalibus  $.20^m-.32^m \times .07^m-.08^m$ ; spatha exteriore bialata acuta, coriacea; spatha interiore  $.18^m$  fusiformi aculeis compressis  $.008^m-.012^m$  badiis 1-3-natis aggregatis armata; spadice pubescente, inermi, in ramos 2 tenues  $.035^m-.050^m$  fisso; fl. ♀, calyce et corolla, quam calyx  $1\frac{1}{2}$ -2-plo longiore, cupularibus, striatis, nudis; petalis rhomboideo-ovatis subtricuspidatis; androcei vestigio nullo; drupa (immatura) ovata, acuminata ( $.012^m \times .006^m$ ), pilis brevissimis sparsis scabra.

*Hab.*—Ad Barreiras de Capiranga, fl. Juruá, mense Novembi.

Var. *lissospatha* (Trail hb. Palm., 166).—Spatha interiore inermi, coriacea, pubescente,  $.1^m$ ; spatha exteriore papyracea; spadice bistrifido; foliorum vaginis et petiolis aculeis tenuioribus subnigris armatis; pinnis haud longe acuminatis, ad margines vix setoso-ciliatis.

*Hab.*—Ad Barr. de Capiranga, fl. Juruá.

*B. sylvatica*, Barb. Rod., may possibly be the same as the variety

*lissospatha*, but as usual the description does not suffice for the determination of his species.

28. *B. Piranga* (Trail hb. Palm., 217).—Humilis; caudicibus 2-6 ex eodem rhizomate ortis,  $\cdot 08^m\text{-}\cdot 30^m \times \cdot 012^m$ , inermibus, valide annulatis, vaginis persistentibus aculeatis obvelatis; foliis  $\cdot 9^m\text{-}1\cdot 5^m$ , pinnatis; vagina  $\cdot 15$  poll. striata, setis badiis aculeis nigris  $\cdot 008^m\text{-}\cdot 035^m$  tenuibus commixtis vestita, in ochream fibrosam pubescentem producta; petiolo  $\cdot 38^m\text{-}\cdot 45^m$ , supra profunde sulcato aculeis  $\cdot 02^m\text{-}08^m$  nigris tenuibus solitariis ad basin armato, et unacum costa setis ferrugineis dense vestito; pinnis 9-12-jugis, alternis vel jugis 4-6 inferioribus subbinatim aggregatis, rhomboideo-lanceolatis, falcato-acuminatis,  $\cdot 22^m\text{-}\cdot 25^m \times \cdot 025^m\text{-}\cdot 08^m$  (apicalibus brevioribus), atroviridibus, supra glabris, subtus pubescentibus, ad apicem solum setosis; spatha exteriore  $\cdot 07^m\text{-}\cdot 09^m \times \cdot 012^m$  bialata, coriacea, pubescente; spatha interiore  $\cdot 22^m\text{-}\cdot 28^m$ , fusiformi, setis ferrugineis dense vestita.

Spadicibus 2-4 in unaquaque stirpe,  $\cdot 19^m\text{-}\cdot 25^m$ , pedunculo deflexo, compresso, sparse setis brevibus armato, ad apicem ramos 3 (raro 2) tenues sparse pilis ferrugineis obsitos proferente; fl. ♀, calyce cupulari, ore trifido, extus glabro, corolla quam calyx duplo longiore, ore trifida, extus sparsissime setosa; ovario ovato stigmatibus subtrigono apicato; drupa spherica, rostellata, glabra,  $\cdot 015^m \times \cdot 012^m\text{-}\cdot 015^m$ , pulcherrima, rosea vel viridi, subtranslucida; endocarpio lenticulari.

*Hab.*—In sylvis recentioribus ad Santarem, fl. Jutahi, et ad Uará infra ostia fl. Juruá; flores et fructus fert mense Febuario. Indi eam vocant "Maraja-piranga."

*Obs.*—This species is hardly likely to be mistaken for any other save the next species, *B. trichospatha*, from which it may be known by its lower stature, by the form of the spines on the petiole, by the unaculeate spathe, by the few-branched spadix, and especially by the fruits. The leaves are not unlike those of *B. tomentosa*, Mart.

29. *B. trichospatha*.—Humilis vel mediocris, aculeata; caudicibus plerumque pluribus ex eodem rhizomate ortis, plerumque  $1\cdot 5^m\text{-}3^m \times \cdot 015^m\text{-}\cdot 025^m$  inermibus vel aculeis ad nodia in semiannulos aggregatis, vel ad internodia sparsis, armatis; foliis plerumque  $1\cdot 4^m\text{-}2\cdot 5^m$  interrupte pinnatis, pinnis omnibus in eodem plano lanceolatis, subfalcatis, longe acuminatis, supra glabris, subtus ad venas pubescentibus, subtus pallidioribus, ad margines nigro-setoso ciliatis, vena primaria 1-venis secundariis 6-8; vaginis et petiolis  $\cdot 3^m\text{-}\cdot 6^m$  aculeis subnigris vel unaquoque medio pallidioribus compressis  $\cdot 005^m\text{-}\cdot 06^m$  valide armatis et unacum costis setis vel pilis ferrugineis vestitis vel plus minus leprosis; spatha exteriore coriacea, pubescente vel apicem versus setosa, ancipiti; spatha interiore sublignea, fusiformi setis ferrugineis plerumque densissime obsita ideoque velutina, aculeis nullis, vel aculeis compressis, spadiceis unaquoque medio pallidioribus, ad margines dentatis,  $\cdot 005^m\text{-}\cdot 015^m$ , sparsis, adpressis armata; spadice  $\cdot 20^m\text{-}\cdot 35^m$ , pedunculo  $\cdot 12^m\text{-}\cdot 22^m$ , decurvo, compresso, pubescente vel velutino, ramos simplices 6-10 sursum attenuatos proferente; fl. ♂ albo; calyce membranaceo, minuto, in lacinas 3 subulatas acutas producto; corolla  $\cdot 004^m$ , ultra medium trifida, petalis ovatis cuspidatis, punctatis; staminibus 6, filamentis quam antheræ dimidio longioribus subulato-filiformibus, antheris erectis; pistilli rudimento nullo; fl. ♀ viridi, calyce, et corolla quam calyx  $1\frac{1}{2}\text{-}2$ -plo longiore