

breviter et subabrupte acuminata, succulento-membranacea, in sicco opaca, integra, 4-7 poll. longa, nervis utrinque 5-6 non prominentibus, chrysolithis striiformibus adpersa; flores albidii, masculi pedicellis capillaribus  $\frac{1}{2}$ - $\frac{3}{4}$  lin. longis, in cymas glabras parviusculas subaxillares pedunculo gracili  $\frac{1}{2}$ - $1\frac{1}{4}$  pollicari suffultas aggregati, feminei glomerulos axillares hemisphæricas densas formantes.—*P. Heyneana* quoddammodo affinis.—In arboribus scandens in sylvis ins. Katchall.

33. *Artocarpus peduncularis*, nov. sp.—Arbor vasta 80-100 pedalis, ramulis novellis parce pubescentibus; stipulæ lanceolatae, minute et sparse appresse sericeæ; folia ovalia ad ovali-elliptica, petiolo 2-3 pollicari suffulta, basi obtusa v. rotundata, 6-7 poll. longa, obtusissima, glabra, lævia, coriacea, nervis 8-9 utrinque strictiusculis subtus acute prominentibus percursa, venis transversis exiguis vix prominentibus; amenta mascula cylindrica, 1- $1\frac{1}{2}$  poll. longa, pedunculo  $2\frac{1}{2}$ - $3\frac{1}{2}$  pollicari glabro suffulta; syncarpia cylindrico-oblonga ad irregulari-bullato-oblonga, iis *Freycinetia insignis* non absimilis,  $1\frac{1}{2}$ -2 poll. longa, pedunculo 3- $4\frac{1}{2}$  pollicari glabro, baccis apicibus convexis 5-6-gonis et stigmatibus coronatis quasi tessellata oligosperma; semina magna, ovoidea, semipollicaria.—In sylvis primævis ins. Kamortæ.

34. *Gnetum macropodium*, nov. sp.—Frutex alte scandens, glaber; folia lato-oblonga v. elliptica, basi acutiuscula, petiolo  $\frac{1}{2}$ - $\frac{3}{4}$  pollicari suffulta, apiculata, 6-7 poll. longa,  $3\frac{1}{2}$ -4 poll. lata, tenui coriacea, glabra laxiuscule sed conspicue reticulata; spicæ femineæ paniculatæ e ramis ortæ, involucris circularibus brevissimis angustissimis; flores bracteolis piliformibus cinereo-fulvis cincti; drupæ elliptico-oblongæ, stipite crassiusculo 8 lin. ad  $1\frac{1}{2}$  poll. longo suffultæ, læves, obtusæ, apiculatæ, luteæ dein aurantiacæ, poll. longæ.—*G. funiculari* valde affine, et differt reticulatione laxa et textura tenuiore foliorum et stipite.—Frequens in sylvis primævis Kamortæ.

35. *Areca augusta*, nov. sp.—Arborea, 80-100 pedalis et altior, trunco gracili cinereo annulato-cicatrizzato usque 1 ped. crasso; folia 8-12 ped. longa, pinnata, brevissime petiolata, rachi supra plana tomento canescenti ferrugineo-subfurfuraceo obducta; pinnæ 3- $2\frac{1}{2}$  ped. longæ v. longiores, anguste lineares, sessiles, acuminatæ, multinerves, coriacæ; spadix glaberrimus, decomposito- et intricato-ramosus,  $2\frac{1}{2}$ - $3\frac{1}{2}$  ped. longus, rami axibus excicis subgeniculatim inserti, extremitates versus frequentius masculi, deorsum flores femineos sæpius flore masculo unico associatos 3-seriatos obducti; flores masculi c.  $2\frac{1}{2}$  lin. longi, sessiles, bracteis latis lævissimis sustenti; sepala lato-ovata, obtusa, lin. circiter longa; petala concavo-oblonga, obtusiuscula, rigide coriacea; stamina 6, filamenta brevissima basi in anulum coalita; florum femineorum sepala et petala subconformia, lata, concava, imbricato-involuta; ovarium ovato-conicum; drupæ elliptico-oblongæ, utrinque acutiusculæ, poll. longæ, coccineæ, epicarpio parce carnosio, endocarpio tenui-fibroso; semen oblongum, sutura ventrali impressa longitudinali percursum, laxissime impresso-venosum; albumen ruminatum.—Frequens in sylvis primævis ins. Kamortæ. [Tab. 170.]

36. *Orania (Veitchia) nicobarica*, nov. sp.—Palma 50-60 pedalis trunco annulato usque  $\frac{3}{4}$  ped. in diametro; folia pinnata, 5-8 ped. longa, brevissime petiolata, petiolo et rachi glaberrimis; pinnæ  $\frac{1}{2}$ -2 ped. longæ, sessiles, lineares, coriacæ, apice bilobatæ, lobis brevibus

subfalcato-incurvis obtusiusculis; spadix intricato-decompositus,  $1\frac{1}{2}$ -2 ped. longus, glaber, rami et ramuli basibus axis dilatato-fissis dense lanatis inserti; bracteolæ subfloribus 3, latæ, intus densissime albivillosæ, perianthii feminei sepala et petala subconformia, lato-ovata, obtusa, c.  $1\frac{1}{2}$  lin. longa, coriacea, castanea, nitida; drupæ spiraliter tristichæ, globosæ, in sicco subobovoidea, cerasi magnitudine, læves, mesocarpio tenui-fibroso, endocarpio tenui-crustaceo nitido; semen fere 4 lin. longum, ovoideo-oblongum, subtus planiusculum et nervis aliquot longitudinalibus præcursum dorso convexo longitudinaliter rugato-costatum; albumen homogeneous in centro obsolete cavum v. omnino solidum, cinereum, cavitate embryonali apicali laterali.—Frequens in sylvis ins. Kamortæ.—Habitu hæc palma omnino cum præcedente quadrat et statura tantum differt. *Veitchia*, potius pro sectione *Orania* quam pro genere distincto sumenda est. [Tab. 171, fig. 19-25.]

ORNITHOCEPHALOCHLOA, nov. gen. (inter *Phalarideas Graminearum*).—Spicæ 5-spiculatæ, spiculæ rachi complicatæ uniseriatim insertæ et secundæ, omnes bifloræ, superiora 4 masculæ, deciduæ, infima basalis flosculum hermaphroditum et alterum masculum includens. Rachis complicata, lineari-lanceolata, acuminata, cum pedicello cuneiformi complicato apice indistincte biauriculato fere continua, post anthesin una cum pedicello sublignoso-induraceus et induplicans spiculam fructigeram nunc spurie pendulum arcte includens et quasi fructum avis caput simulantem representat. Glumæ 2, membranacæ, valvulas æquantes v. paullulum superantes, inferior 5-7-, superior 3-nervia. Valvulæ florum masculorum marginibus inflexis interiorem subæquilongam hyalinam angustam amplectantes, subnerviæ, glumæ subconsimiles; eæ florum hermaphroditorum coriacæ, subnerviæ, flosculum arcte includentes. Stamina 3, filamentis longis, strictiusculis; antheræ lineares, utrinque bifidæ. Ovarium oblongum, stylus perbrevis, stigmata 2, dense plumosa. Gramina longe repentes foliis brevibus, littora arenosa ins. Nicobarenses habitantes.

37. *O. arenicola*, nov. sp.—Gramen cæspitosum longe prorepens; folia lanceolata, acuminata, puberula,  $\frac{1}{2}$ - $1\frac{1}{4}$  poll. longa, vaginæ ampliusculæ, puberulæ, ligula angustissima, pilosa; spicæ secundæ c. 4 lin. longæ, in pedicellum cuneiformem dense appresse hirsutum c. 2 lin. longum complicatum productæ et folio florali subspathaceo supportatæ; rachis appresse hirsutula complicata et cum pedicello subarticulata, sub fructu accrescens et reduplicans fructum spurium ornithocephoideum puberulum formans; caryopsis oblonga  $1\frac{1}{4}$  lin. longa, pallida.—Hab. in arenosis calcareis littorum ins. Katchall, frequens.—Gramen valde peculiare nullo generi inter *Phalarideas* arcte affine. [Tab. 171, fig. 1-18.]

#### DESCRIPTION OF PLATES 169—171.

Tab. 169. *Bixagrewia nicobarica*, Kurz.—Fig. 1, flowering branch; fig. 2, staminal series seen from outside; fig. 3, ditto from inside; fig. 4, ripe capsule, from the side; fig. 5, ditto, section, showing the dry lamella-like placentas and attachment of seeds; fig. 6, a seed. (All natural size, except figs. 2, 3, and 6.)

Tab. 170. *Areca augusta*, Kurz.—Fig. 1, habit of the palm; fig. 2, portion of the flowering spadix having male and female flowers; fig. 3, fruiting ditto; fig. 4, male flower; fig. 5, ditto, opened, with a calyx and one petal removed; fig. 6, female flower; fig. 7, ditto, the sepals removed; fig. 8, ovary; fig. 9, seed; fig. 10, ditto, longitudinal section. (Figs. 4–8 magnified.)