

longe brunneo-hispidus, apice agglomerato-corymboso-ramosus, ramis aequilongis. Folia inferiora mediaque alternata, longe oblanceolato-elliptica, longe elliptica vel elliptica, 5—9 cm longa, 2—3 cm lata, apice acuta vel acuminata, basi in petiolos 1.5—2.5 cm longos purpureos cuneato-angustata, vel sessilia; ea superiora subopposita, lanceolata, 5—6 cm longa, basi rotundata vel late cuneata, sessilia; ea ad furcas pedunculorum minima, lanceolata vel late linearia, sessilia, apice longe vel breviter acuminata; omnia textura crassiuscula, margine serrata, utrinque glabra, laevia, subtus valde purpurea. Calathidia 7 in numero, agglomerato-corymboso-disposita, pedunculis aequilongis, crassiusculis, hispidis. Flosculi ligulati, 24 in numero. Involucrum nigro-viride, anguste campanulatum, 1.3 cm longum, cujus phyllis 3—4-seriatis, imbricatis, seriem interiorem versus longioribus, extremis triangularibus, 4.5 mm longis, 1.2 mm latis, apice acutis, intimis longe ellipticis, 1.3 cm longis, 2 mm latis, apice obtusis vel rotundatis, omnibus dorso ad costas medias longe hispidis, sed seriem interiorem versus sparsim vel fere glabris. Achaenia brunnea, clavata, leviter dorsi-ventraliter compressa, 5 mm longa, costis 14, inaequicrassa, erostrata. Pappi setae 2-seriata, leviter flavae; 7 mm longae, serrulatae.

**Sichuan** (四川) Emei Mt. (峨眉山), 1952-07-27, X. P. Jiang (蒋兴麟) 31803 (Typus, PE).

Species insignis calathidis agglomerato-dispositis, pedunculis fere aequilongis, crassiusculis, a speciebus ceteris sinensibus bene distincta.

#### 14 戟叶假福王草 新种 图 6

**Paraprenanthes hastata** Shih, sp. nov.

Herba perennis. Caulis solitarius, erectus, 80 cm altus, superne paniculato-ramosus, ramis gracilibus, omnino villis multicellularibus noduliformibus obtectus, sed superne densius. Folia inferiora hastata, 12 cm longa, 5—7 cm lata, apice acuminata, margine irregulariter repando-crenata vel-crenulata vel obscure crenulata, solummodo repanda, petiolata, petiolis 9 cm longis; ea media triangulata, triangulato-hastata vel lanceolata, 11—13 cm longa, 3—5 cm lata, alato-petiolata, petiolis 2—5 cm longis, margine repando-crenata, apicibus crenae mucronulatis vel margine inferne latere 1-sinuata; ea superiora lanceolata, margine obscure apiculata, apice longe acuminata, petiolata, petiolis 0.5—2 cm longis; omnia textura tenuia, utrinque glabra. Calathidia numerosa, in apicem caulis et ramorum inflorescentiam paniculatam formantia. Flosculi 12 in numero, purpurei, ligulati. Involucrum anguste cylindricum, 7 mm longum, cujus phyllis 4-seriatis, extremis externisque brevissimis, lanceolatis, usque ad 4 mm longis, 1 mm latis, intimis internisque longissimis, longe ellipticis, 8.5 mm longis, 1 mm latis; omnibus apice obtusis. Pappus albus 5.5 mm longus, scabrellus. Achaenia immatura.

**Sichuan** (四川): Chongqing (重庆), Beipei (北碚), Jinyun Mt. (缙云山), 1992-06-15, C. X. Yang (杨昌熙) 3934 (Typus, PE).

Ex affinitate *P. sylvicolae* Shih, ab ea differt caule pedunculisque villis multicellularibus



图6 戟叶假福王草。(蔡淑琴绘)  
Fig. 6 *Paraprenanthes hastata* Shih.

noduliformibus obtectis et forma foliorum.

### 15 绿春假福王草 新种

**Paraprenanthes luchunensis** Shih, sp. nov.

Species *P. prenanthoidi* (Hemsl.) Shih affinis, sed foliis omnibus divisis differt.

Herba annua, 50—100 cm alta. Caulis erectus, solitarius, superne corymboso- vel corymboso-paniculato-ramosus, ramis omnino villis multicellularibus noduliformibus vel villis multicellularibus noduliformibus capitellatis stipitatis obtectis. Folia radicalia et caulina inferiora lyrato-pinnatisecta, petiolata, petiolis, usque ad 11 cm longis, lobis terminalibus majoribus, lanceolatis, 9 cm longis, 2.5—3 cm latis, apice acuminatis, lobis lateralibus 1—2-jugis, ellipticis, apice obtusis vel acutis, mucronulatis, basi late confluentibus, omnibus margine integris vel apiculatis; folia media superioraque radicalibus et caulinis inferioribus similia, sed minora; omnia textura tenuia utrinque glabra. Calathidia numerosa, ad caulem et ramos in inflorescentiam corymbosam vel corymboso-paniculatam terminalem disposita. Involucrum cylindricum, 1.2 cm longum, 2 mm latum, phyllis 3—4-seriatis, extimis et exterioribus brevissimis, 2 mm longis, vix 1 mm latis, apice acutis, intimis interioribusque longissimis longe lanceolatis, 1.2 cm longis, 2 mm latis, apice acutis omnibus glabris. Flosculi ligulati, pallide rosei, 12 in numero. Achaenia atrata, 4 mm longa, superne breviter attenuata, apice albida, erostrata. Pappi setae albae, 5 mm longae, obscure minute scabridae.

**Yunnan** (云南); Luchun (绿春), alt. 1200 m, 1974-05-07, Exp. Luchun (绿春队) 460; Luchun (绿春), 1974-06-12, Exp. Luchun (绿春队) 1895 (Typus, PE).

### 16 长柄假福王草 新种

**Paraprenanthes gracilipes** Shih, sp. nov. — *Prenanthes gracilipes* Chang in sched.

Species *P. sororiae* (Miq.) Shih affinis, sed foliis utrinque villis multicellularibus noduliformibus sparse obtectis differt.

Herba annua, 60 cm alta. Caulis erectus, superne paniculato-ramosus, ramis gracilibus, glabris. Folia radicalia et caulina inferiora ignota; folia caulina media lyrato-pinnatisecta, petiolata, petiolis 3—13 cm longis, villis multicellularibus noduliformibus obtectis, lobis terminalibus majoribus, triangulato-hastatis vel fere late triangulatis, 8—10 cm longis 6—9 cm latis, apice breviter acuminatis, margine inaequaliter serratis, basi leviter hastatis, raro truncatis, lobis lateralibus 1-jugis, ellipticis 3—4 cm longis, 1.5—2.5 cm latis, apice acutis, margine serratis; vel folia caulina media interdum indivisa, triangulato-hastata, petiolata, petiolis 8 cm longis; folia superiora triangulato-lanceolata, 4.5 cm longa, 3 cm lata, petiolata, petiolis 1.5 cm longis, alatis, basi late cuneata, margine serrata; folia suprema longe elliptica, 3.5 cm longa, 0.6 cm lata, apice acuminata, basi cuneato-attenuata, sessilia; omnis utrinque villis multicellularibus noduliformibus sparse obtecta. Calathidia numerosa, ad caulem et ramos in inflorescentiam paniculatam disposita. Involucrum cylindricum, 9 mm longum, 2 mm latum; involucri phylla 4-seriata, extima et exteriora breviora, ovata vel lanceolata, 2—2.8 mm longa, 1 mm lata, apice acuta vel obtusa, intima et in-