

pinnatifida vel pinnatilobata, lobis lateralibus 4—6-jugis, inaequalibus, anguste triangularibus, apice acutis, infimis dentiformibus. Calathidia pauca, pedunculata, pedunculis albotomentosis. Flosculi 14, ligulati, flavi, tubis glabris. Involucrum cylindrico-campanulatum, 8—9 mm longum, nigro-viride, cujus phyllis 4-seriatis, extremis externisque brevissimis, ovatis vel lanceolatis, 2—4 mm longis, 1—1.5 mm latis, apice obtusis vel acutis, intimis internisque lanceolatis, 8—9 mm longis, 1.5 mm latis, apice longe acutis, intus glabris, aliquibus dorso juxta apicem corniculatis, omnibus glabris. Achaenia immatura, apice truncata. Pappi setae 2-seriatae, albae, 7 mm longae, minute scaberulae.

**Xizang** (西藏): Zayü (察隅), alt. 3900 m, 1935-09, C. W. Wang (王启无) 66121 (Typus, PE).

### 8 沙湾还阳参 新种 图 3:1

**Crepis shawanensis** Shih, sp. nov.

Ex affinitate *C. chrysanthae* (Ledeb.) Turcz., e qua differt foliis ellipticis, utrinque laxa hirsutis.

Herba perennis, rhizomate brevi crasso. Caulis 30—50 cm altus erectus, eramosus, inferne dense, superne laxe hirsutus, sub calathidiis laxe hirsutus et sericeus. Folia basalia elliptica, petiolis inclusis 5—9 cm longa, 2 cm lata, basi in petiolos anguste alatos cuneato-angustata; folia inferiora mediaque longe elliptica, apice acuta, basi cuneata, sessilia vel breviter petiolata; folia superiora minora vel minima, lanceolata vel lanceolato-subulata vel subulata; omnia utrinque laxe hirsuta, margine apiculata. Calathidium solitarium, sub eo e axillis foliorum superiorum subulatorum calathidiis 1—2 obsoletis. Flosculi ligulati, flavi, tubis glabris. Involucrum campanulatum, cir. 8 mm longum, cujus phyllis 4-seriatis, extremis externisque inaequalibus, lanceolatis usque ad 3 mm longis, 1 mm latis, apice acutis, intimis internisque lanceolatis, 8 mm longis, 1 mm latis, apice acutis, margine membranaceis, intus glabris, omnibus extus secus costas medias nigro-hirsutis. Achaenia immatura. Pappus albus.

**Xinjiang** (新疆): Shawan (沙湾), in declivitate aprrica, alt. 1750 m, 1965-07-18, T. Y. Chou (周太炎) 651044 (Typus, PE).

### 9 草甸还阳参 新种 图 4:1

**Crepis pratensis** Shih, sp. nov.

Species nostra *C. tectis* L. affinis, sed involucri phyllis extus glabris differt.

Herba perennis, radice elongata, verticali vel obliqua. Caulis solitarius, nudus vel fere nudus, 15—50 cm altus, superne paniculato-, vel paniculato-corymboso-ramosus, omnino glaber, basi reliquiis petiolorum veterum brunneis. Folia basalia et infima numerosa, spathulata, ligulata, longe elliptica vel linearia, petiolis inclusis 3—11 cm longa, 0.7—1.5 cm lata, basi in petiolos longiores vel breviores angustata, apice acuta, margine acuto-serrulata vel fere integra vel integra; folia inferiora pauca, linearia, anguste linearia, lineari-subulatave, minora, margine paucoserrulata vel integra; omnia textura crassa, utrinque glabra. Ca-

lathidia pauca, 4—26 in numero, ad apicem ramorum et caulis inflorescentiam corymbosam, paniculatam vel paniculato-corymbosam formantia. Flosculi ligulati, flavi, 11 in numero, tubis glabris. Involucrum campanulatum, nigro-viride, 1.1 cm longum, cujus phyllis



图3 1. 沙湾还阳参; 2. 全叶还阳参。(蔡淑琴绘)  
Fig. 3 1. *Crepis shawanensis* Shih; 2. *C. integrifolia* Shih.

4-seriatis extremis externisque ovatis, elliptico-ovatis vel ellipticis, inaequilongis, usque ad 4 mm longis, 1.2 mm latis, apice acutis, intimis internisque lanceolatis, longe elliptico-lanceolatis, 1.1 cm longis, 2 mm latis, apice acutis vel obtusis intus glabris; omnibus extus glabris. Achaenia 5 mm longa, brunnea, costis aequalibus 10, spinulosis, apice truncata,



图 4 1. 草甸还阳参; 2. 长苞还阳参。(蔡淑琴绘)  
Fig. 4 1. *Crepis pratensis* Shih; 2. *C. pseudonaniiforma* Shih.

erostrata. Pappus albus, 7 mm longus.

**Qinghai** (青海): Da Qaidam (大柴达木), Da Qaidam Lake (大柴达木湖), ad lacum, alt. 3100 m, 1959-07-16, Gansu-Qinghai Exped. (甘青队) 334 (Typus, PE); Xiao Qaidam Lake (小柴达木湖), in palude, alt. 3160 m, 1959-07-15, Gansu-Qinghai Exped. (甘青队) 274; Mahai (马海), id. 211; Leng Hu (冷湖), ad lacum, alt 2790 m, id. 542; Xiao Qaidam Lake (小柴达木湖), alt. 3160 m, id. 295; Golmud (格尔木), in palude, id. 500; Qaidam Basin (柴达木盆地), alt. 2880 m, Qaidam Exped. (柴达木调查队) 108.

#### 10 长苞还阳参 新种 图 4:2

*Crepis pseudonaniforma* Shih, sp. nov.

Ex affinitate *C. naniformae* Babcock., e qua bene differt foliis ellipticis vel oblanceolatis.

Herba perennis, radice elongata, pauce brunneo-gemmata. Caulis solitarius, 17 cm altus, basi reliquiis petiolorum veterum brunneis. Folia inferiora mediaque petiolis inclusis 5—9 cm longa, 5—11 mm lata, elliptica vel oblanceolata, apice rotundata, mucronulata vel non mucronulata, margine raro dentata, in petiolos 3—5.5 cm longos cuneato-angustata; folia superiora et ea ad furcas ramorum inflorescentiae linearia vel oblanceolata, basi cuneata, sessilia vel fere sessilia, margine integra vel fere integra; folia in pedunculis minima, subulata, bracteiformia; omnia utrinque glabra. Calathidia 8—12 in numero, ad apicem ramorum et caulis inflorescentiam corymbosam formantia. Flosculi ligulati, 11 in numero, flavi, tubis glabris. Involucrum anguste cylindricum, 1.1 cm longum, cujus phyllis 4-seriatis, extremis externisque longe ovatis vel lanceolatis, 1.2—2 mm longis, 1 mm latis, apice acutis, intimis internisque anguste lineari-ellipticis, 1.1 cm longis, 1 mm latis, apice acutis vel obtusis, margine albo-membranaceis, intus glabris, omnibus extus glabris. Achaenia brunnea, fusiformia, 6 mm longa, costis 9, non spinulosis. Pappus albus, gracilis, 7 mm longus.

**Xinjiang** (新疆): Zhaosu (昭苏), 1957-08-14, K. C. Kuan (关克俭) 3501 (Typus, PE).

#### 11 天山还阳参 新种 图 5

*Crepis tianshanica* Shih, sp. nov.

Ex affinitate *C. flexuosae* (Ledeb.) Turcz., e ea differt involucris campanulatis, cujus phyllis extus albo-sericeis.

Herba perennis parva, radice gracili, pauce gemmata. Caulis erectus 3—5 cm altus, sparsim vel superne densius pubescens. Folia lyrato-vel fere lyrato-pinnatisecta, -pinnatipartita, ambitu lanceolata, utrinque sparsim pubescentia vel non pubescentia, petiolis pubescentibus vel non pubescentibus inclusis 2.5—4 cm longa, 0.5—0.8 cm lata, lobis lateralibus 3—4-jugis, oppositis, alternatis vel obliquis, ellipticis vel triangularibus vel rhomboideis vel irregulariter rhombideis, apice acutis, rotundatis vel obtusis, margine integris sed eis inferioribus minoribus dentiformibus; lobis terminalibus ellipticis, ovatis, hastatis vel saggitatis,