

1. **Houttuynia californica**, Benth. et Hook. Gen. Plant. iii. p. 128.

*Anemiopsis californica*, Hook. et Arn. Bot. Beech. Voy. p. 390, t. 92; DC. Prodr. xvi. 1, p. 237; Bot. Mag. t. 5292; Torr. Bot. U.S. & Mex. Bound. Surv. p. 203.

*Anemiopsis bolanderi*, C. DC. in Linnæa, xxxvii. p. 333?

TEXAS to CALIFORNIA.—NORTH MEXICO, Parras, Coahuila (*Palmer*, 1184), Chihuahua (ex *Torrey*); SOUTH MEXICO, Leon (*Hartweg*). Hb. Kew.

2. PIPER.

*Piper*, Linn. Gen. Plant. n. 43, pro parte; Benth. et Hook. Gen. Plant. iii. p. 129.

Upwards of 600 species of this genus have been described; many of them, however, are imperfectly known, and it is probable that with fuller materials a considerable reduction of this number would be made. Some of them are tall herbs, and others are trees; but most of them are shrubs, some of them of climbing habit.

1. **Piper aduncum**, Linn. Sp. Pl. p. 41; DC. Prodr. xvi. 1, p. 285; Jacq. Ic. Pl. Rar. ii. t. 210; Descour. Fl. Antill. iii. t. 230.

*Artanthe adunca*, Miq.; Griseb. Fl. Brit. W. Ind. p. 171.

*Steffensia adunca*, Kth. in Linnæa, xiii. p. 633.

SOUTH MEXICO, Orizaba (*Botteri*, 257, 574; *Bourgeau*, 2054), valley of Cordova (*Bourgeau*, 1606, 1958), Jalapa (*Galeotti*); BRITISH HONDURAS, Belize (*March*); PANAMA, Chagres (*Fendler*, 268).—Southward to PERU and BRAZIL, and in the WEST INDIES. Hb. Kew.

2. **Piper angustifolium**, Ruiz et Pav. Pl. Peruv. et Chil. i. p. 38, t. 57. fig. *a*; DC. Prodr. xvi. 1, p. 285 (varietates).

*Piper granulosum*, Ruiz et Pav. loc. cit. p. 38, t. 64. fig. *b*.

MEXICO (*Sallé*; *Botteri*); PANAMA, Chagres (*Fendler*, 269), in meadows around Panama (*Seemann*, 117).—COLOMBIA and VENEZUELA to PERU and BRAZIL. Hb. Kew.

3. **Piper artanthopse**, C. DC. in Mém. Soc. Phys. Genève. xviii. t. 1. fig. 13, et in DC. Prodr. xvi. 1, p. 325.

COSTA RICA, Aguacate (*Hoffmann*).

4. **Piper auritum**, H. B. K. Nov. Gen. et Sp. i. p. 54; DC. Prodr. xvi. 1, p. 320.

*Schilleria aurita*, Kth. in Linnæa, xiii. p. 713.

*Artanthe aurita*, Miq. Syst. Pip. p. 400.

*Artanthe seemanniana*, Miq. in Seem. Bot. Voy. 'Herald,' p. 199, t. 39.

SOUTH MEXICO, region of Orizaba (*Botteri*, 221; *Bourgeau*, 2135); GUATEMALA (*Friedrichsthal*); NICARAGUA, Chontales (*Seemann*, 157; *Tate*, 308, 368); PANAMA, Mamei (*S. Hayes*, 937).—COLOMBIA. Hb. Kew.

β. **schiedeanum**, C. DC. in DC. Prodr. xvi. 1, p. 321.

MEXICO (*Schiede & Deppe*).