

COSMOS DIVERSIFOLIUS

(Cav.)

LINNEAN SYSTEM.

SYNGENESIA FRUSTRANEA.

NATURAL ORDER.

TRIBE SENECONIDEÆ.

GENERIC CHARACTER

Cosmos (Cav.) *Capitulum* multiflorum radiatum, ligulis simplicibus. *Involucrum* duplex, utrumque squamis 8-10 basi plus minus coarctatis, apice acuminatis. *Receptaculum* elongatum, paleaceum; paleis membranaceis, in filum elongatum productis. *Styli* rami apice hirsuti, in conum subulatum producti. *Antheræ* apice appendice scariosa cordata. *Siliqua* tetragonum, exalatum, rostratum, et interdum stipitatum, aristis 2-4 deciduis coronatum. *Herbæ* *Americanæ*: annuæ et perennes, glabræ, ramosæ. *Folia* bipinnatisecta, lobis linearibus lanceolatis, sæpius margine serratis ad apices ramorum longè nudorum, solitaria. *Discus* intense luteus. *Radix* ... *Al.* Prod. vol. v. p. 606.

Capitulum many-flowered, rayed, radiatum. *Involucrum* double, each containing 8-10 scales, more or less joined at the base, tapering towards the apex. *Receptaculum* chaffy; chaff membranaceous, protruding into an elongated filament. Branches of the *style* thickening at the apex, hispid, elongating into an awl-shaped beak. *Anthers* attached to a scarios, heart-shaped appendage at the apex. *Seed* four-sided, wingless, beaked, and sometimes stipitate, crowned with two deciduous, pointed rough awns. *Plants* natives of *America*, annual or perennial, smooth, or scarcely hairy, branched. *Leaves* bipinnately divided, lobes linear lanceolate, oftentimes entire at the apex. *Branches* ... bearing at the apex a solitary flower. *Disc* deep yellow.

GENERIC CHARACTER

C. diversifolius. *Caule* glabro; *foliis* bipinnatisectis, lobis subapiculatis, margine scabris; *petalis* ovato-lanceolatis, apice dentatis, interdum entire; *involucris* lanceolatis acutis; *achenis* glabris; *aristis* duobus.

Stem smooth; *leaves* petiolate, divided into double or triple divisions, sometimes with a point, margin rough; *petals* ovate-lanceolate, toothed at the apex, or entire; *involucre* lanceolate, acute; *achenia* smooth; *awns* two.

Cosmos diversifolius. Otto. H. Berol.

THE plant from which our drawing was taken was sent with other rarities to the Birmingham Botanic Garden, by Mr. Otto, of the Berlin Botanic Garden, in the year 1835. It was then small, and flowered for the first time last year. It is a showy plant, and will consequently be an acquisition to the ornamental

Cosmos Diversifolius