

الباب السابع

TAXONOMY

التصنيف الزهري

TAXONOMY

Engler & Prantl (1931)

Hutchinson (1973)

Subdivison : Phanerogams
 Class : Dicotyledoneae
 Subclass : Archichlamydeae
 Order : Rosales
 Family : Rosaceae

Phylum : Angiospermae
 Subphylum : Dicotyledones
 Division : Lignosae
 Order : Rosales
 Family : Rosaceae

- 1- *Rosa spithamea*
- 2- *Fragaria vesca*
- 3- *Pyrus malus*
- 4- *Prunus armeniaca*

- 1 *Rosa spithamea*
- 2 *Fragaria vesca*
- 3 *Pyrus malus*
- 4 *Prunus armeniaca*

: Phanerogams
 : Dicotyledoneae
 : Archichlamydeae
 : Rosales
 : Leguminosae

: Angiospermae
 : Dicotyledones
 : Lignosae
 : Leguminales
 : Caesalpiniaceae

- 1- *Cassia* sp.
- 2- *Bauhinia* sp.

- 1- *Cassia* sp.
- 2- *Bauhinia* sp.

: Phanerogams
 : Dicotyledoneae
 : Archichlamydeae
 : Rosales
 : Leguminosae

Angiospermae
 Dicotyledones
 Lignosae
 Leguminales
 Mimosaceae

- 1- *Acacia franesiana*
- 2- *Mimosa pudica*

- 1- *Acacia franesiana*
- 2- *Mimosa pudica*

Phanerogams
 Dicotyledoneae
 Archichlamydeae
 Rosales
 Leguminosae

Angiospermae
 Dicotyledones
 Lignosae
 Leguminales
 Fabaceae (Papilionaceae)

- 1- *Lathyrus odoratus*

- 1- *Lathyrus odorata*

Phanerogams
 Dicotyledoneae
 Sympetalae
 Rubiales
 Caprifoliaceae

Angiospermae
 Dicotyledones
 Lignosae
 Araliales
 Caprifoliaceae

- 1- *Lonicera
 simpervirens*

- 1- *Lonicera
 simpervirens*

Phanerogams
Dicotyledoneae
Archichlamydeae
Salicales
Salicaceae

1- Salix subserrata

Phanerogams
Dicotyledoneae
Archichlamydeae
Urticales
Urticaceae

1- Urtica urens

Phanerogams
Dicotyledoneae
Archichlamydeae
Centrospermae
Nyctaginaceae

*1- Bougainvillea
spectabilis*
2- Mirabilis jalapa

Phanerogams
Dicotyledoneae
Archichlamydeae
Parietales
Violaceae

1- Viola tricolor

Phanerogams
Dicotyledoneae
Sympetalae
Cucurbitales
Cucurbitaceae

1- Luffa cylindrica

Phanerogams
Dicotyledoneae
Archichlamydeae
Malvales
Malvaceae

*1- Hibiscus
rosa-sinensis*

Angiospermae
Dicotyledones
Lignosae
Salicales
Salicaceae

1- Salix subserrata

Angiospermae
Dicotyledones
Lignosae
Urticales
Urticaceae

1- Urtica urens

Angiospermae
Dicotyledones
Lignosae
Thymelaeales
Nyctaginaceae

*1- Bougainvillea
spectabilis*
2- Mirabilis jalapa

Angiospermae
Dicotyledones
Lignosae
Violales
Violaceae

1- Viola tricolor

Angiospermae
Dicotyledones
Lignosae
Cucurbitales
Cucurbitaceae

1- Luffa cylindrica

Angiospermae
Dicotyledones
Lignosae
Malvales
Malvaceae

*1- Hibiscus
rosa-sinensis*

Phanerogams
Dicotyledoneae
Archichlamydeae
Geraniales
Linaceae

*1- Linum
usitatissimum*

Angiospermae
Dicotyledones
Lignosae
Malpighiales
Linaceae

*1- Linum
usitatissimum*

Phanerogams
Dicotyledoneae
Archichlamydeae
Geraniales
Euphorbiaceae

*1- Ricinus
communis*

Angiospermae
Dicotyledones
Lignosae
Euphorbiales
Euphorbiaceae

*1- Ricinus
communis*

Phanerogams
Dicotyledoneae
Archichlamydeae
Myrtiflorae
Myrtaceae

*1- Callistemon
lanceolatus*
*2- Eucalyptus
rostrata*

Angiospermae
Dicotyledones
Lignosae
Myrtales
Myrtaceae

*1- Callistemon
lanceolatus*
*2- Eucalyptus
rostrata*

Phanerogams
Dicotyledoneae
Archichlamydeae
Geraniales
Rutaceae

1- Citrus aurantium
2- Ruta graveolens

Angiospermae
Dicotyledoues
Lignosae
Rutales
Rutaceae

1- Citrus aurantium
2- Ruta graveolens

Phanerogams
Dircotyledoneae
Archichlamydeae
Sapindales
Anacardiaceae

1- Mangifera indica

Angiospermae
Dicotyledones
Lignosae
Sapindales
Anacardiaceae

1- Mangifera indica

Phanerogams
Dicotyledoneae
Sympetalae
Contortae
Apocynaceae

1- Vinca rosea

Phanerogams
Dicotyledoneae
Sympetalae
Tubiflorae
Verbenaceae

1- Duranta repens

Phanerogams
Dicotyledoneae
Archichlamydeae
Ranales
Ranunculaceae

1- Delphinium ajacis
2- Aquilegia vulgaris

Phanerogams
Dicotyledoneae
Archichlamydeae
Rhoadales
Papaveraceae

1- Papaver rhoeas

Phanerogams
Dicotyledoneae
Archichlamydeae
Rhoadales
Cruciferae

1- Matthiola incana

Phanerogams
Dicotyledoneae
Archichlamydeae
Centrospermae
Caryophyllaceae

1- Dianthus
caryophyllatus

Angiospermae
Dicotyledones
Lignosae
Apocynales
Apocynaceae

1- Vinca rosea

Angiospermae
Dicotyledones
Lignosae
Verbenales
Verbenaceae

1- Duranta repens

Angiospermae
Dicotyledones
Herbaceae
Ranales
Ranunculaceae

1- Delphinium ajacis
2- Aquilegia vulgaris

Angiospermae
Dicotyledones
Herbaceae
Rhoadales
Papaveraceae

1- Papaver rhoeas

Angiospermae
Dicotyledones
Herbaceae
Brassicales
Brassicaceae (Cruciferae)

1- Matthiola incana

Angiospermae
Dicotyledones
Herbaceae
Caryophyllales
Caryophyllaceae

1- Dianthus
caryophyllatus

Phanerogams
Dicotyledoneae
Archichlamydeae
Polygonales
Polygonaceae

1- *Polygonum*
periearia
2- *Muehlenbeckia*
platyclados

Angiospermae
Dicotyledones
Herbaceae
Ploygonales
Polygonaceae

1- *Polygonum*
periearia
2- *Muehlenbeckia*
platyclados

Phanerogams
Dicotyledoneae
Archichlamydeae
Centrospermae
Chenopodiaceae

1- *Chenopodium*
murale

Angiospermae
Dicotyledones
Herbaceae
Chenopodiales
Chenopodiaceae

1- *Chenopodium*
murale

Phanerogams
Dicotyledoneae
Sympetalae
Primulales
Primulaceae

1- *Anagllis arvensis*

Angiospermae
Dicotyledones
Herbaceae
Primulales
Primulaceae

1- *Angallis arvensis*

Phanerogams
Dicotyledoneae
Archichlamydeae
Umbelliflorae
Umbelliferae

1- *Daucus carota*

Angiospermae
Dicotyledones
Herbaceae
Umbellales
Apiaceae (umbelliferae)

1- *Daucus carota*

Phanerogams
Dicotyledoneae
Sympetalae
Campanulales
Compositae

1- *Helianthus*
annuus

Angiospermae
Dicotyledones
Herbaceae
Asterales
Asteraceae (compositae)

1- *Helianthus*
annuus

Phanerogams
Dicotyledoneae
Symetalae
Tubiflorae
Solanaceae

- 1- *Datura stramonium*
- 2- *Petunia hybrida*

Phanerogams
Dicotyledoneae
Sympetalae
Tubiflorae
Convolvulaceae

- 1- *Convolvulus arvensis*

Phanerogams
Dicotyledoneae
Sympetalae
Tubiflorae
Scrophulariaceae

- 1- *Antirrhinum majus*
- 2- *Linaria vulgaris*

Phanerogams
Dicotyledoneae
Archichlamydeae
Geraniales
Geraniaceae

- 1- *Pelargonium* sp.

Phanerogams
Dicotyledoneae
Archichlamydeae
Geraniales
Tropaeolaceae

- 1- *Tropaeolum majus*

Angiospermae
Dicotyledones
Herbaceae
Solanales
Solanaceae

- 1- *Datura stramonium*
- 2- *Petunia hybrida*

Angiospermae
Dicotyledones
Herbaceae
Solanales
Convolvulaceae

- 1- *Convolvulus arvensis*

Angiospermae
Dicotyledones
Herbaceae
Personales
Scrophulariaceae

- 1- *Antirrhinum majus*
- 2- *Linaria vulgaris*

Angiospermae
Dicotyledones
Herbaceae
Geraniales
Geraniaceae

- 1- *Pelargonium* sp.

Angiospermae
Dicotyledones
Herbaceae
Geraniales
Tropaeolaceae

- 1- *Tropaeolum majus*

Phanerogams
Dicotyledoneae
Sympetalae
Tubiflorae
Polemoniaceae

1- Phlox sp.

Phanerogams
Dicotyledoneae
Sympetalae
Tubiflorae
Labiatae

1- Ocimum basilicum
2- Salvia splendens

Phanerogams
Monocotyledoneae
Scitamineae
Musaceae

1- Musa nana

Phanerogams
Monocotyledoneae
Scitamineae
Cannaceae

1- Canna indica

Phanerogams
Monocotyledoneae
Lilliflorae
Liliaceae

1- Aloe sp.

Phanerogams
Monocotyledoneae
Lilliflorae
Liliaceae

1- Allium cepa
2- Narcissus tazetia

Angiospermae
Dicotyledones
Herbaceae
Polemoniales
Polemoniaceae

1- Phlox sp.

Angiospermae
Dicotyledones
Herbaceae
Lamiales
Lamiaceae (Labiatae)

1- Ocimum basilicum
2- Salvia splendens

Angiospermae
Monocotyledones
Calyciferae
Zingiberales
Musaceae

1- Musa nana

Angiospermae
Monocotyledones
Calyciferae
Zingiberales
Cannaceae

1- Canna indica

Angiospermae
Monocotyledones
Corolliferae
Liliales
Liliaceae

1- Aloe sp.

Angiospermae
Monocotyledones
Corolliferae
Amaryllidales
Amaryllidaceae

1- Allium cepa
2- Narcissus tazetia

Phanerogams
Monocotyledoneae
Lilliflorae
Iridaceae

- 1- *Gladiolus* sp.
- 2- *Freesia* sp.

Phanerogams
Monocotyledoneae
Principes
Palmae

- 1- *Phoenix dactylifera*

Phanerogams
Monocotyledoneae
Glumiflorae
Cyperaceae

- 1- *Cyperus laevigatus*

Phanerogams
Monocotyledoneae
Glumiflorae
Gramineae

- 1- *Cynodon dactylon*
- 2- *Triticum vulgare*

Angiospermae
Monocotyledones
Corolliferae
Iridales
Iridaceae

- 1- *Gladiolus* sp.
- 2- *Freesia* sp.

Angiospermae
Monocotyledones
Corolliferae
Palmales
Arecaceae (Palmae)

- 1- *Phoenix dactylifera*

Angiospermae
Monocotyledones
Glumiflorae
Cyperales
Cyperaceae

- 1- *Cyperus laevigatus*

Angiospermae
Monocotyledones
Glumiflorae
Graminales
Poaceae (Gramineae)

- 1- *Cynodon dactylon*
- 2- *Triticum vulgare*

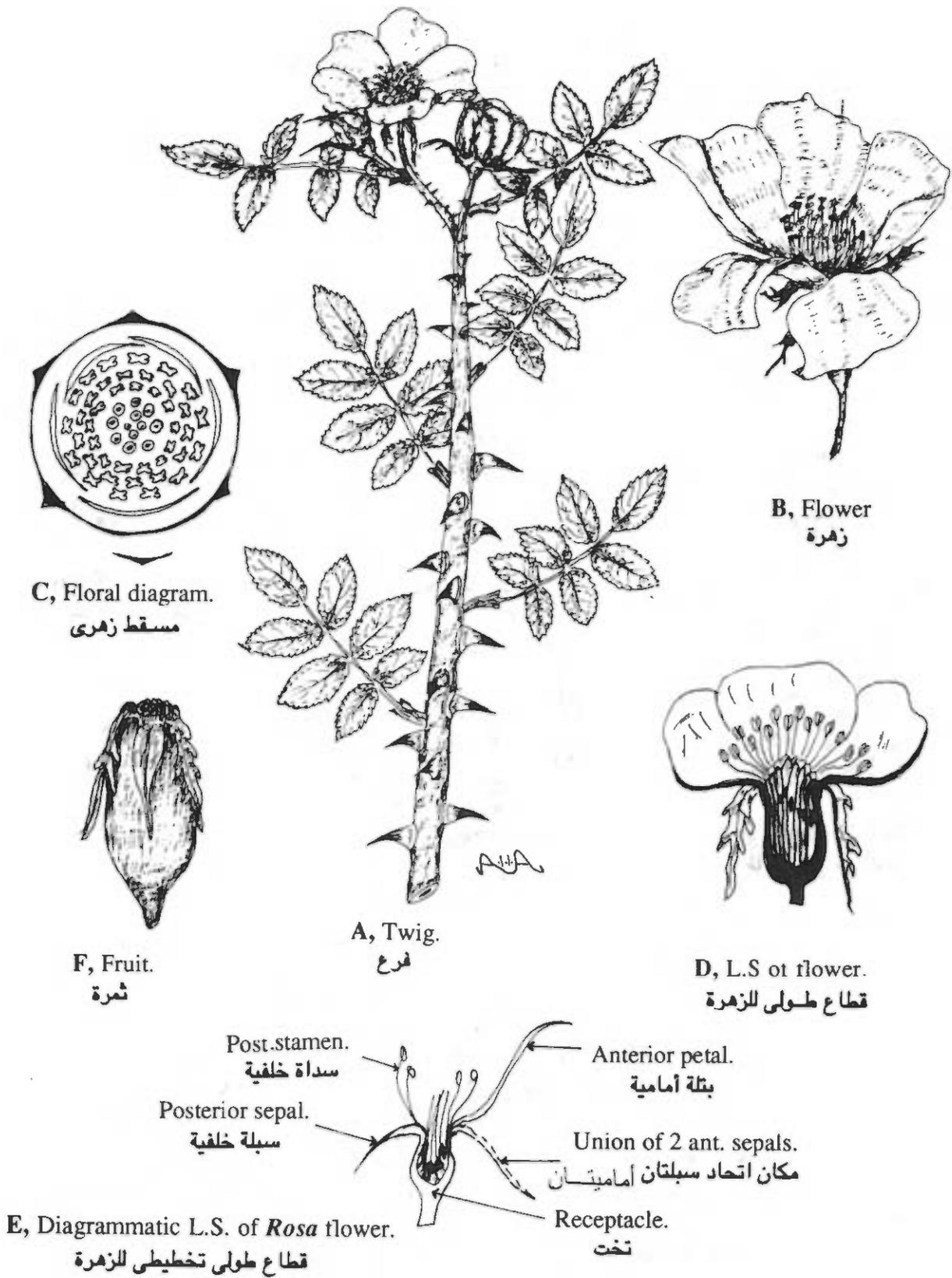
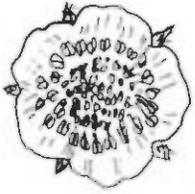


Fig. 1.1, *Rosa spithamea*.

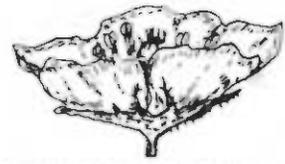
شكل (١-١) الورد المفرد



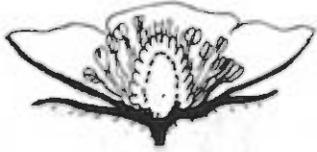
A, Flowering plant.
نبات مزهر



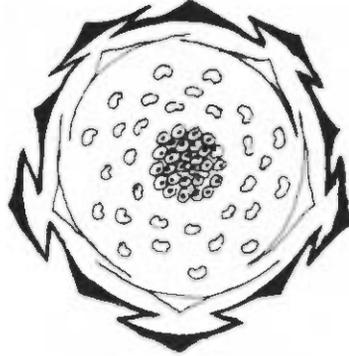
B₁, Top view of flower.
منظر قمي للزهرة



B₂, Lateral view of flower.
منظر جانبي للزهرة



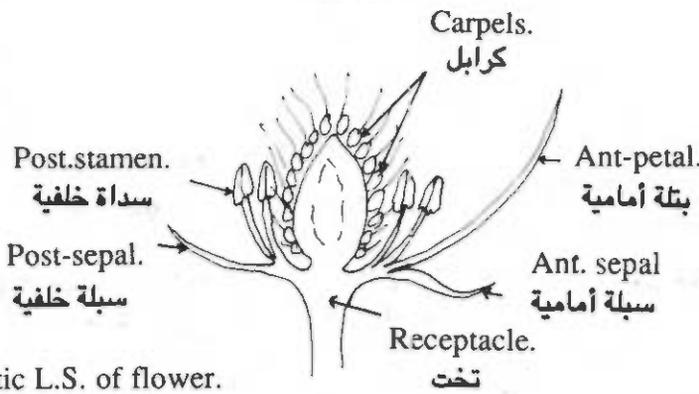
D, L.S. of flower.
قطاع طولى فى الزهرة



C, Floral diagram.
مسقط زهرى



F. Fruit.
ثمرة



E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة

Fig. 1.2, *Fragaria vesca*.
شكل (١-٢) نبات الفراولة

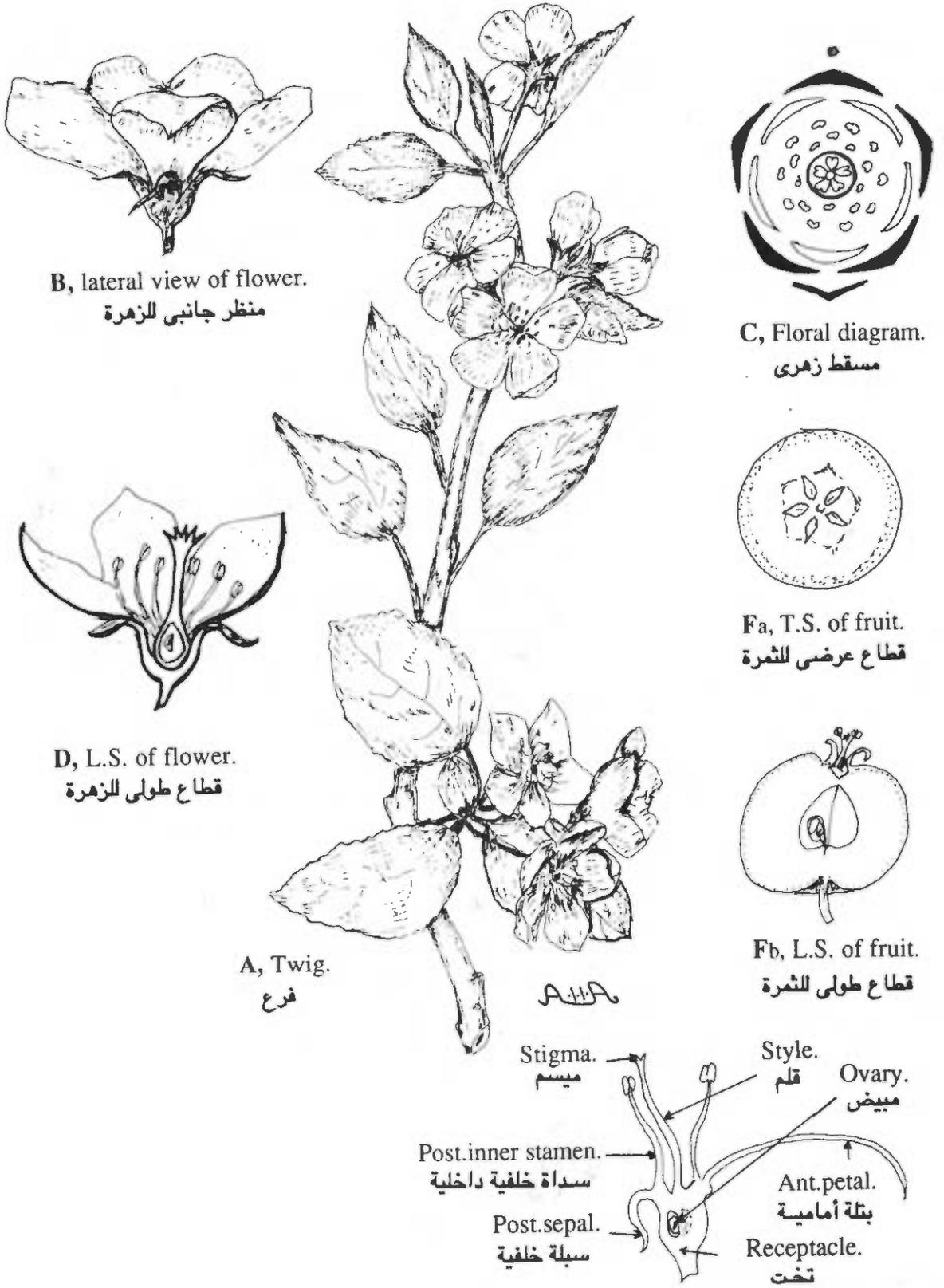
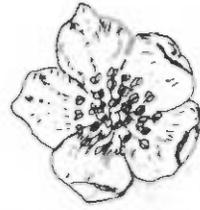


Fig. 1.3, *Pyrus malus*.
شكل (١-٣) نبات التفاح

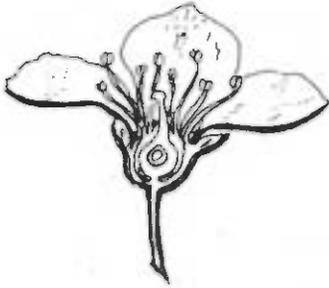
E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطي للزهرة



B₁, Lateral view of flower.
منظر جانبي للزهرة



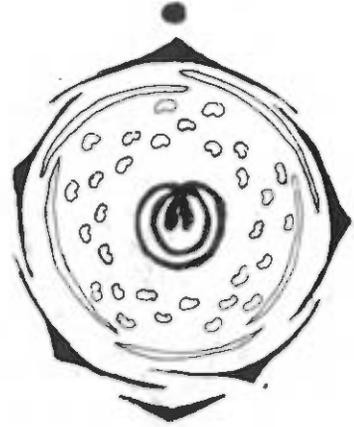
B₂, Top view of flower.
منظر قمي للزهرة



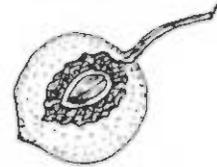
D, L.S. of flower.
قطاع طولى للزهرة



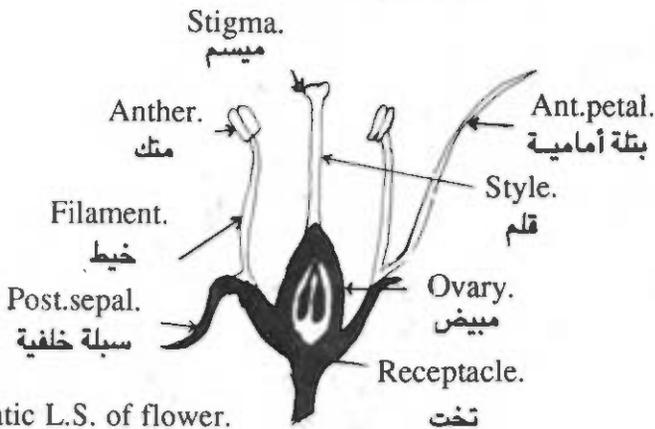
A, Twig.
فرع



C, Floral diagram.
مستط زهرى



F, L.S. of fruit.
قطاع طولى للثمرة



E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة

Fig. 1.4, *Prunus armeniaca*.

شكل (١-٤) نبات المشمش

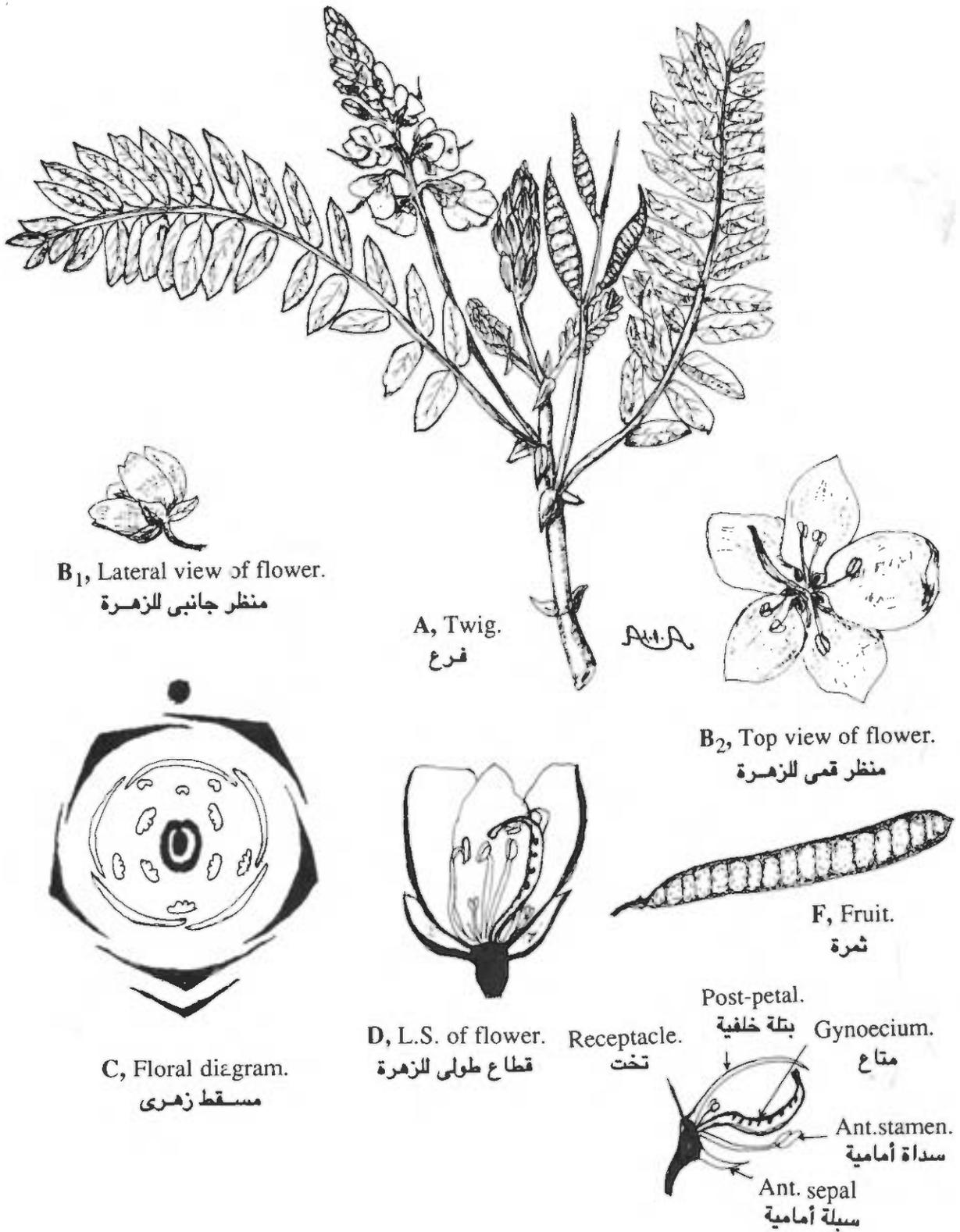
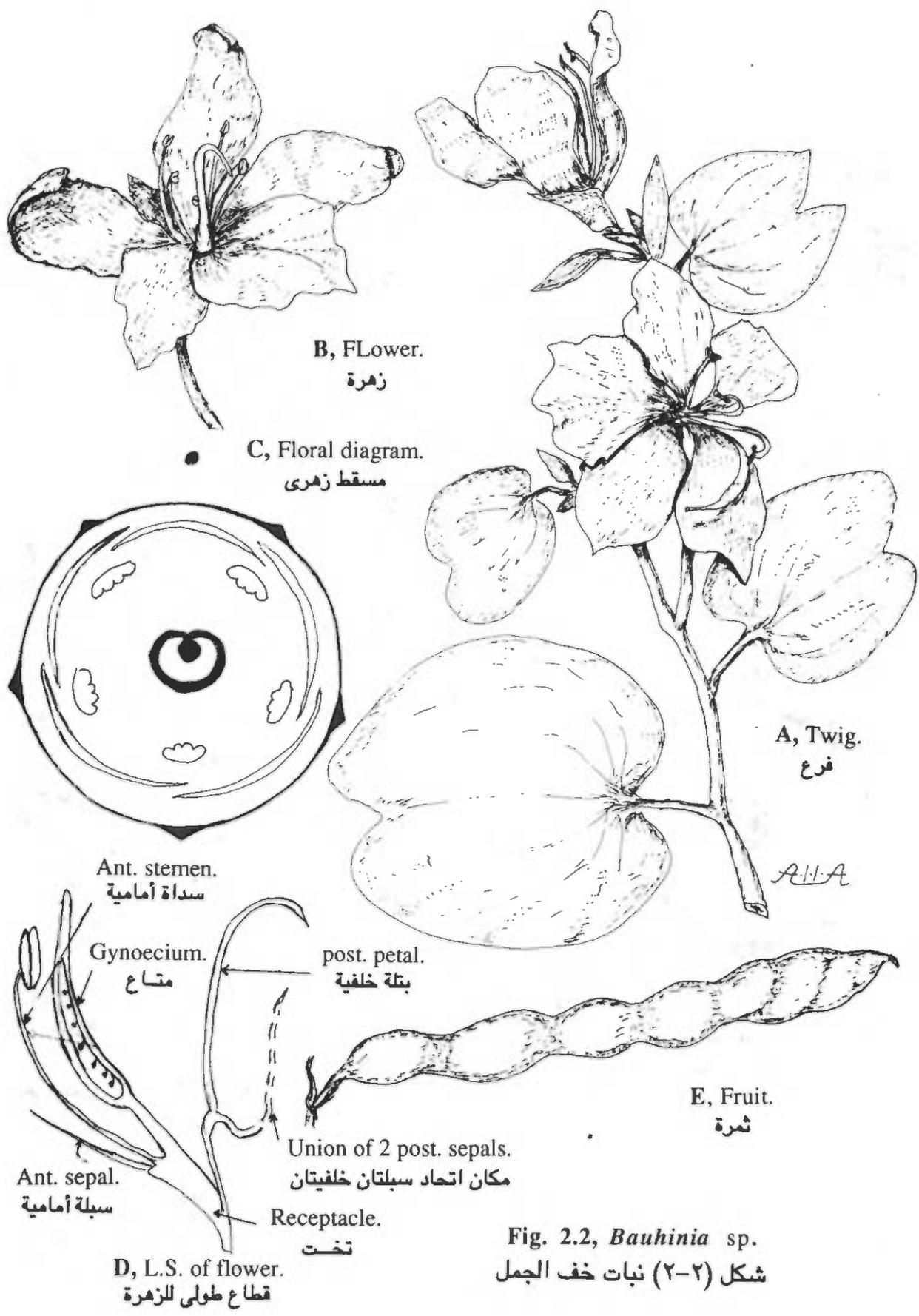


Fig. 2.1 *Cassia* sp.
شكل (١-٢) الكاسيا

E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة



B, Flower.
زهرة

C, Floral diagram.
مسقط زهرى

A, Twig.
فرع

Alia

E, Fruit.
ثمرة

Ant. stemen.
سداة أمامية

Gynoecium.
متاع

post. petal.
بتلة خلفية

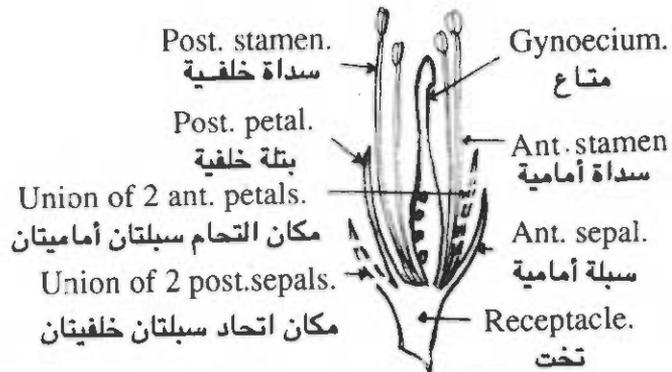
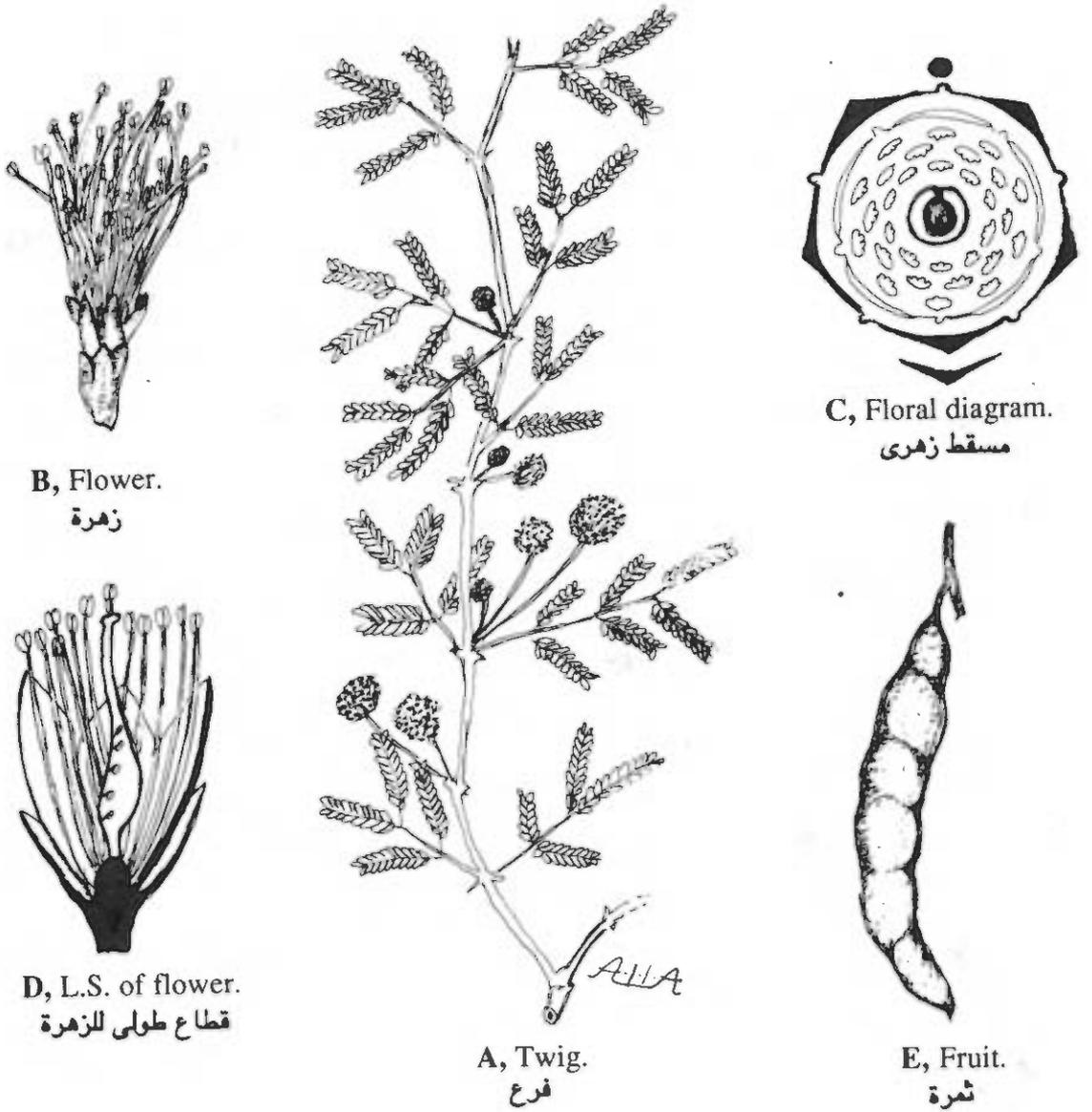
Ant. sepal.
سبلة أمامية

Union of 2 post. sepals.
مكان اتحاد سبلتان خلفيتان

Receptacle.
تخت

D, L.S. of flower.
قطاع طولى للزهرة

Fig. 2.2, *Bauhinia* sp.
شكل (٢-٢) نبات خف الجمل



E, Diagrammatic L.S. of flower.

قطاع طولى تخطيطى للزهرة

Fig. 3.1, *Acacia franesiana*.

شكل (١-٣) نبات السنط

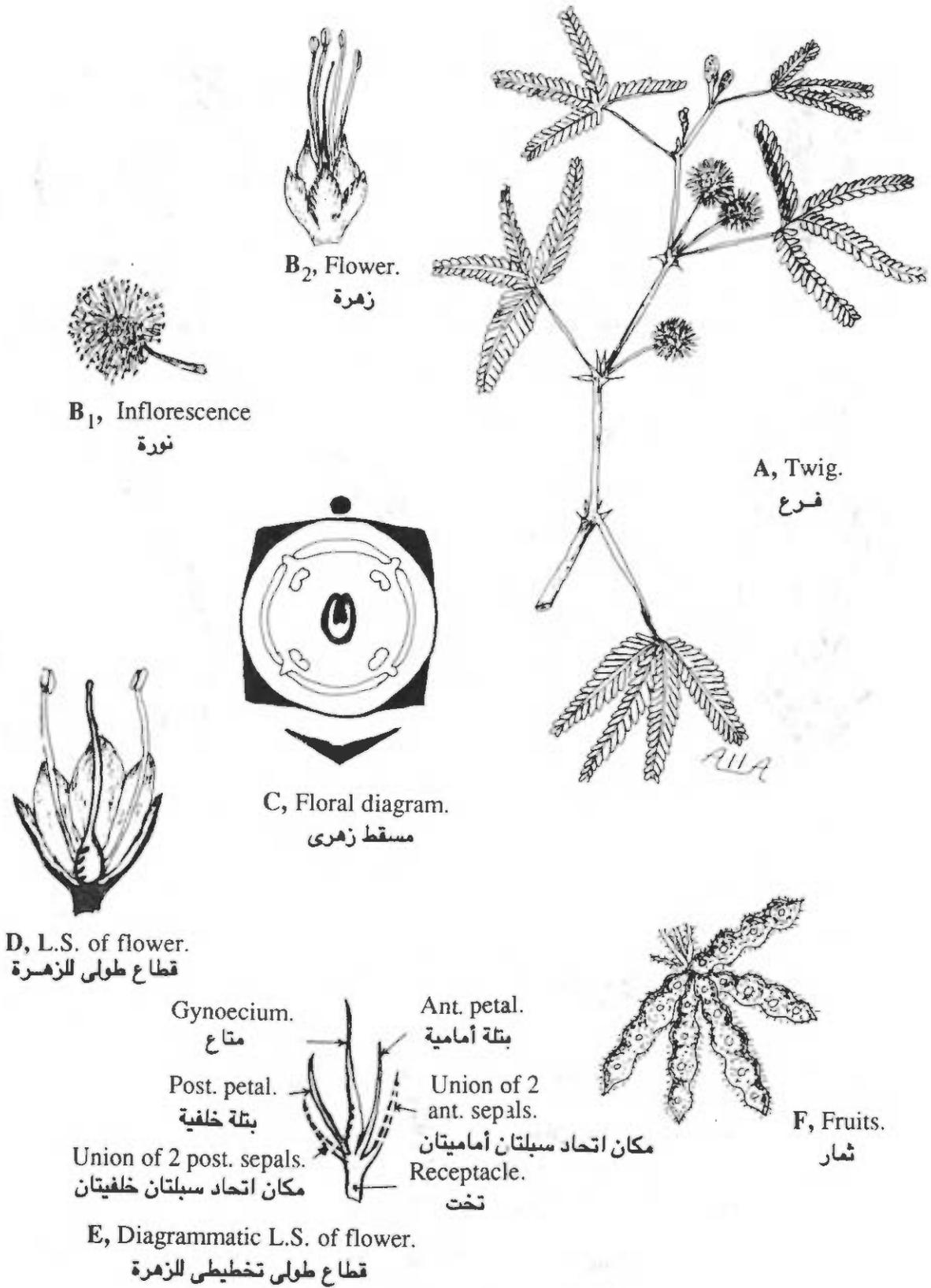
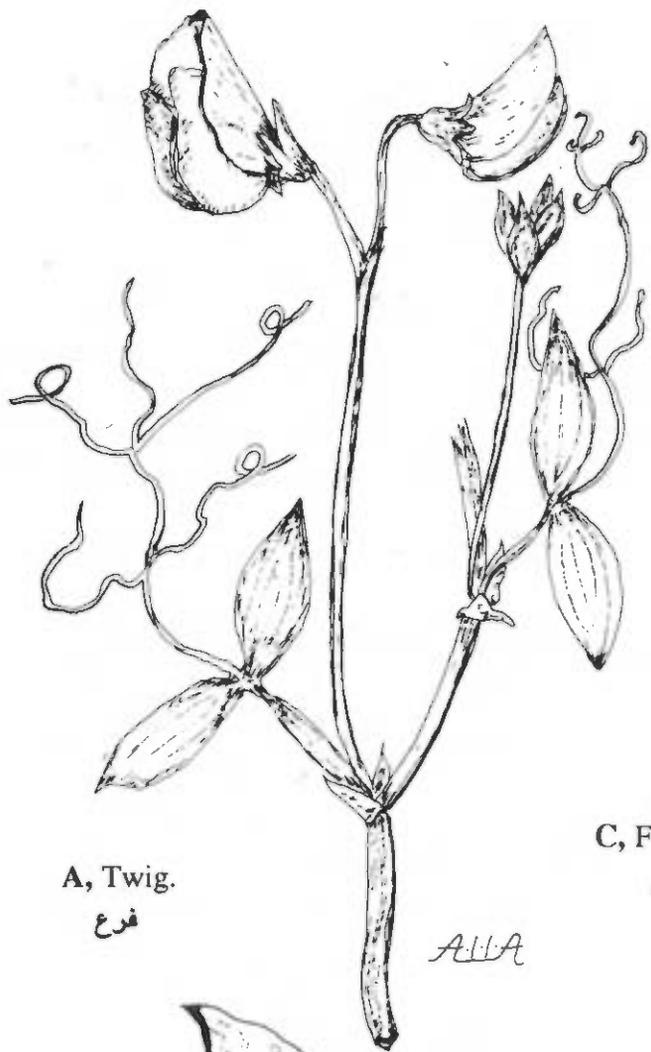
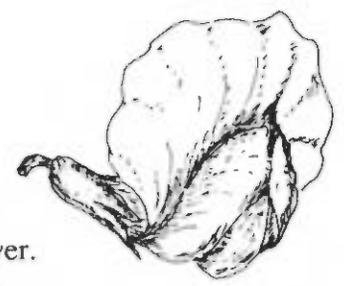


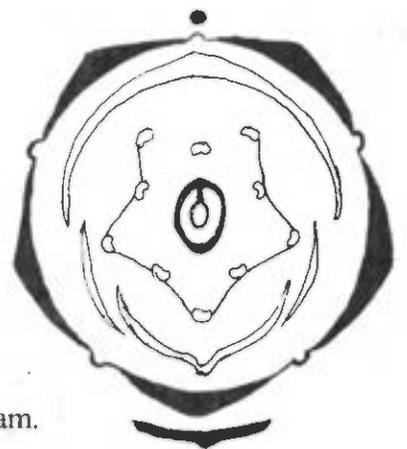
Fig. 3.2, *Mimosa pudica*.
 شكل (٢-٣) الست المستحية



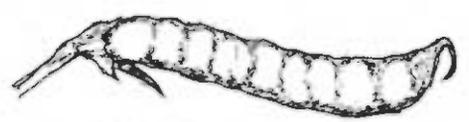
A, Twig.
فرع



B, Flower.
زهرة



C, Floral diagram.
مسقط زهرى



F, Fruit.
ثمرة



D, L.S. of flower.
قطاع طولى للزهرة

E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة

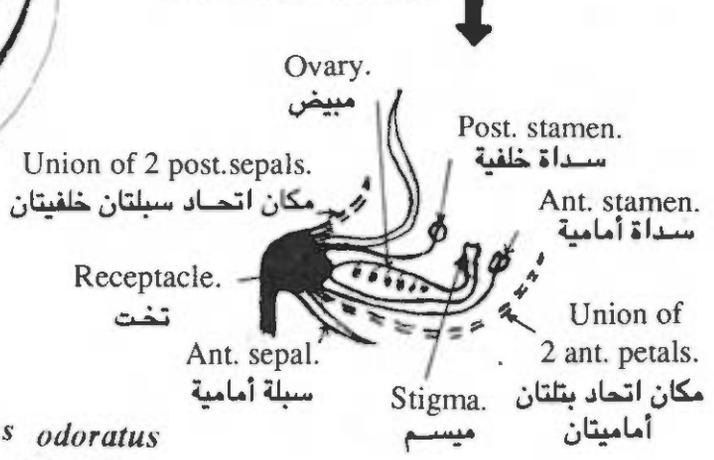


Fig. 4, *Lathyrus odoratus*
شكل (٤) نبات بسلة الزهور

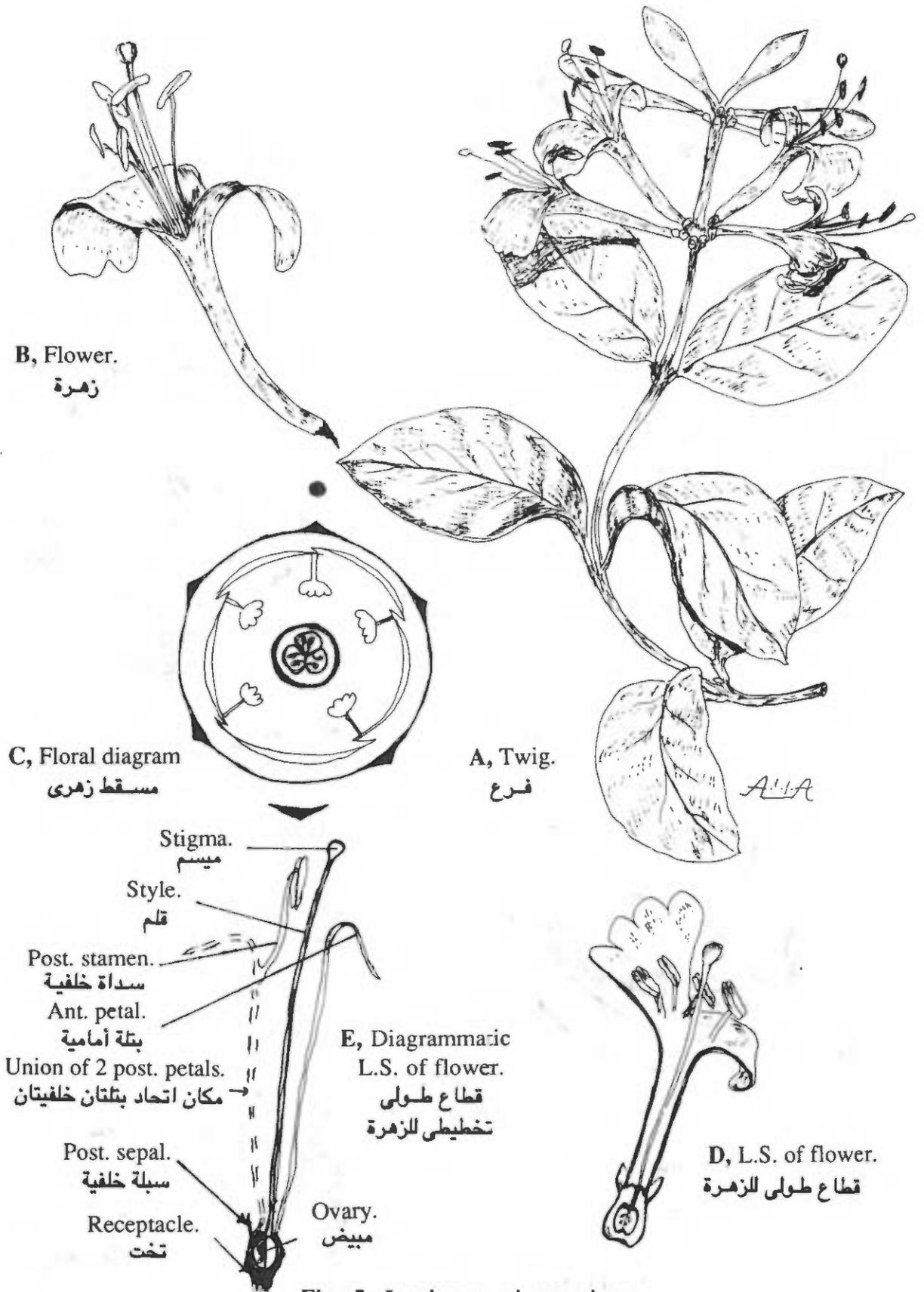
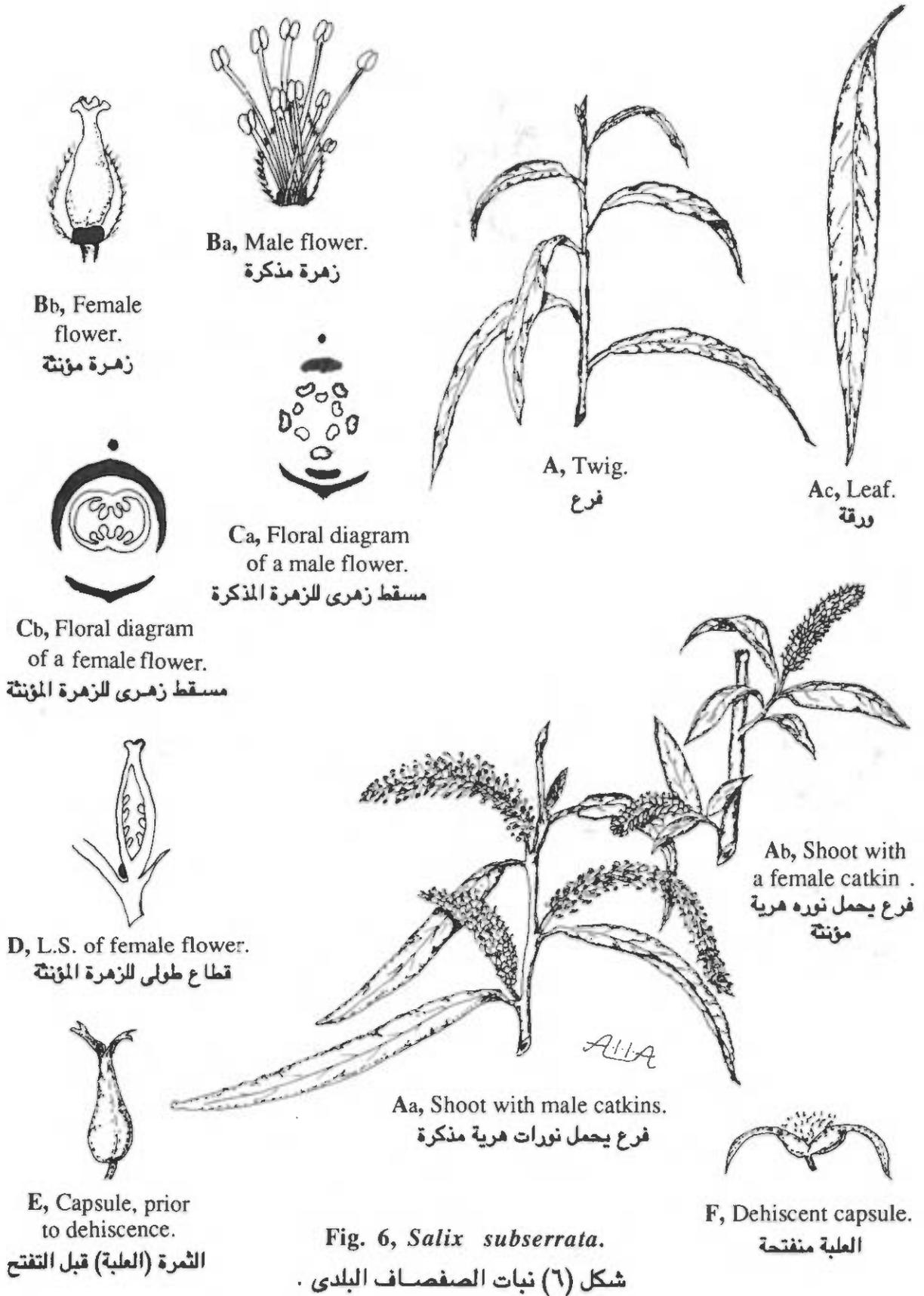


Fig. 5, *Lonicera sempervirens*.
شكل (٥) نبات شبرفايد



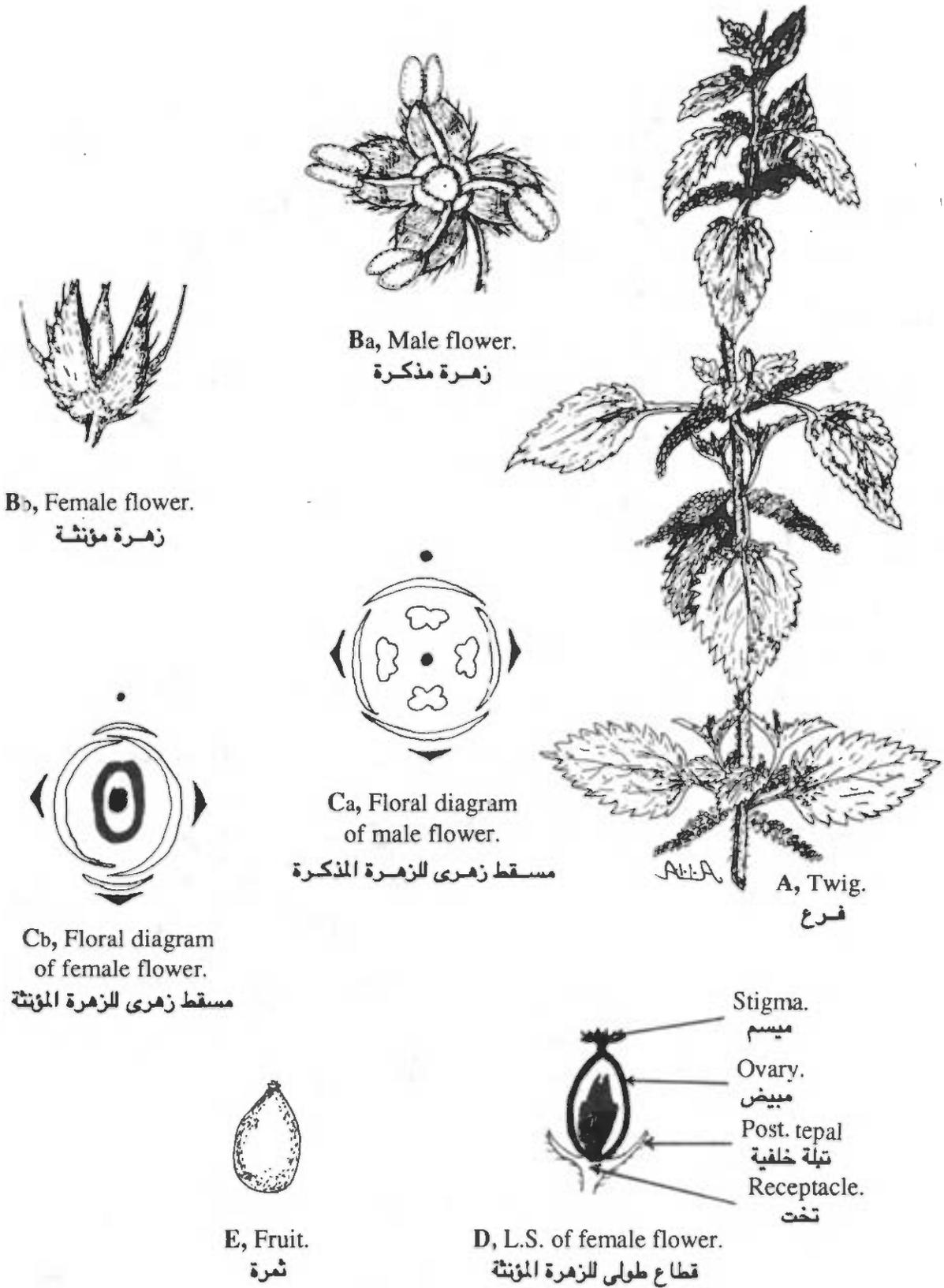


Fig. 7, *Urtica urens*.

شكل (٧) نبات الحريق .

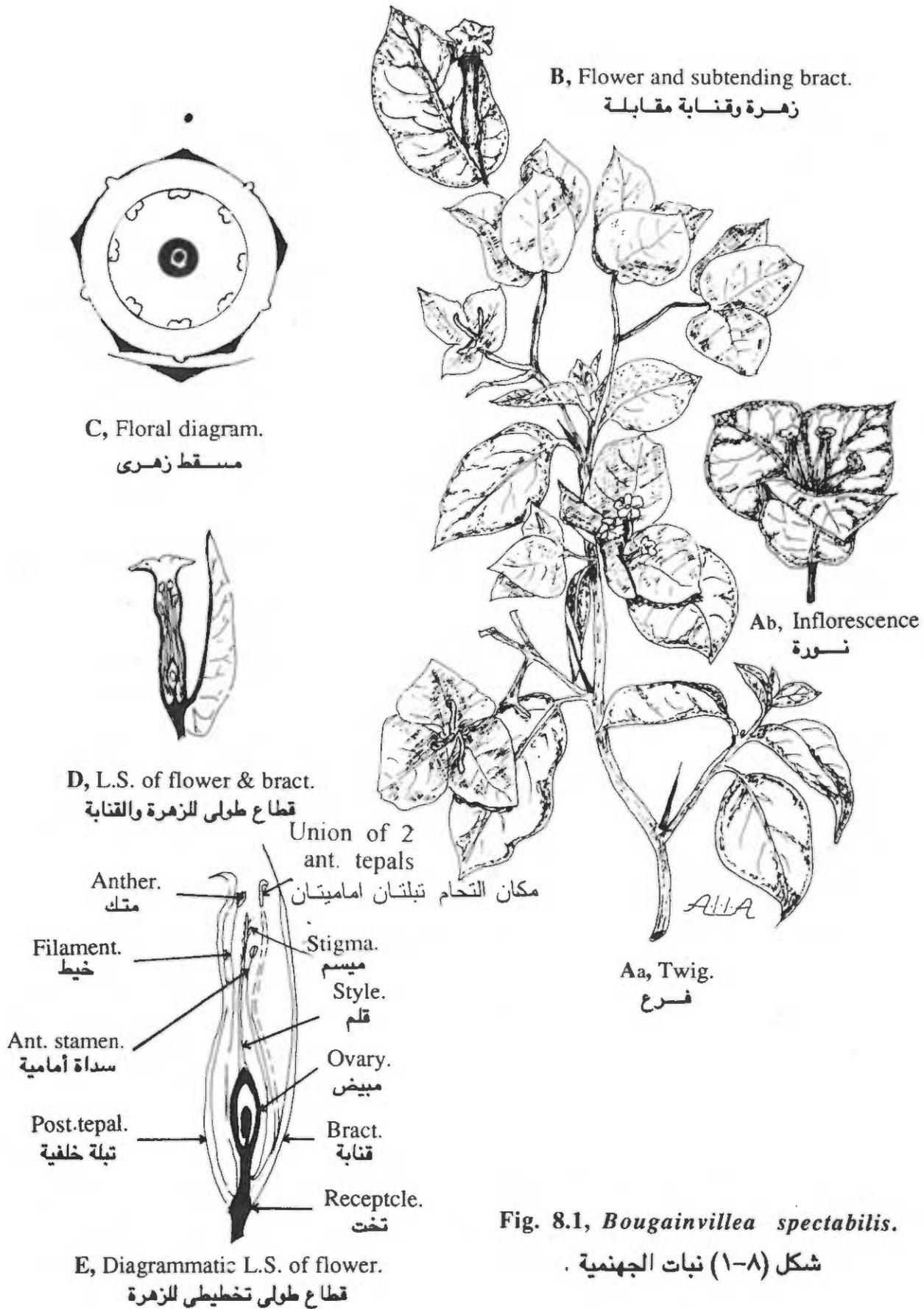
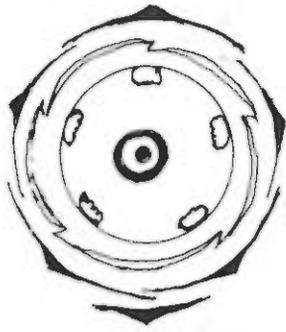


Fig. 8.1, *Bougainvillea spectabilis*.

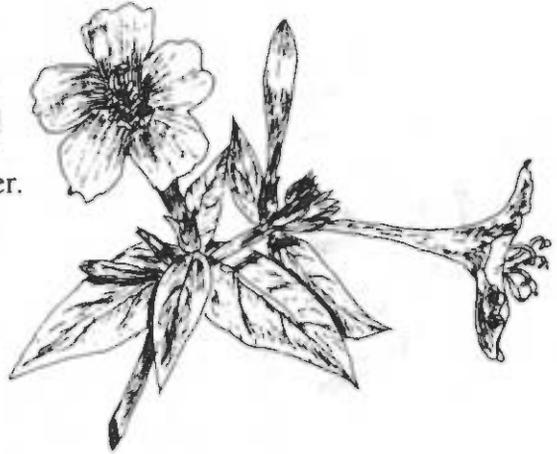
شكل (٨-١) نبات الجهنمية .



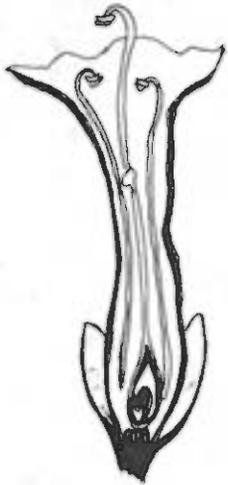
C, Floral diagram.
مسقط زهرى



B, Flower.
زهرة



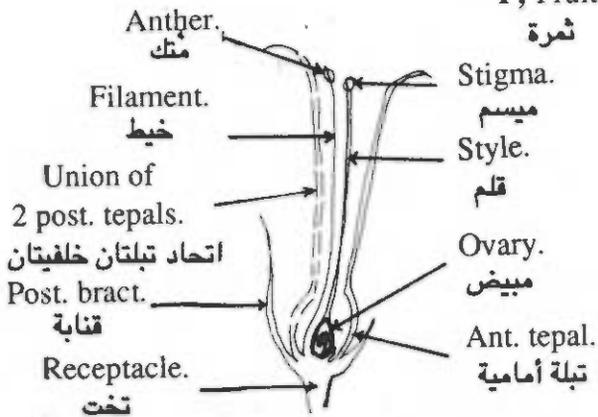
Ab, Branch with flowers.
فرع مع أزهار



D, L.S. of flower.
قطاع طولى للزهرة



F, Fruit.
ثمرة



E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة



Aa, Twig.
فرع

Fig. 8.2, *Mirabilis jalapa*.
شكل (٢-٨) نبات شب الليل .

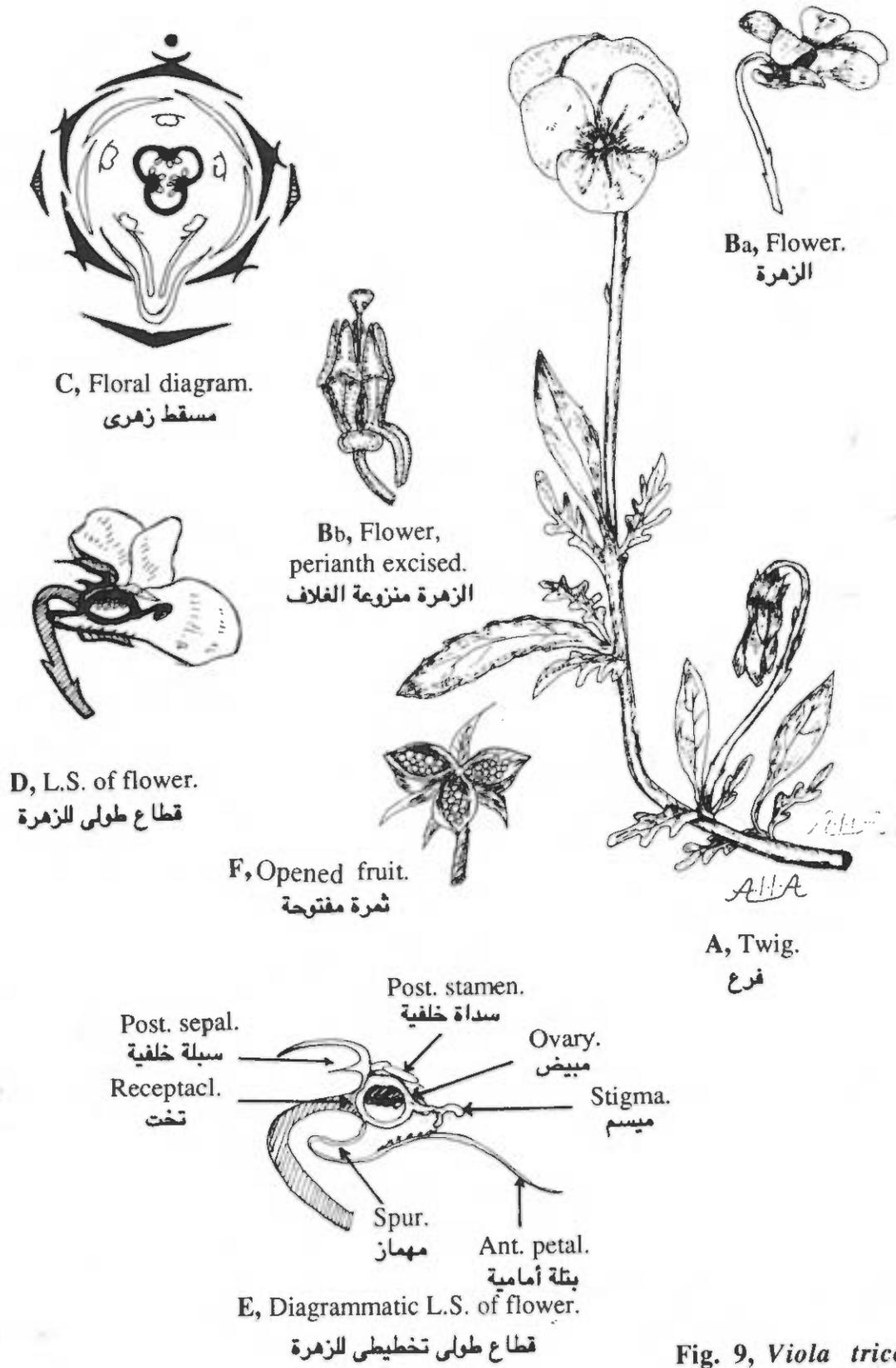


Fig. 9, *Viola tricolor*.
شكل (٩) نبات البنسية .

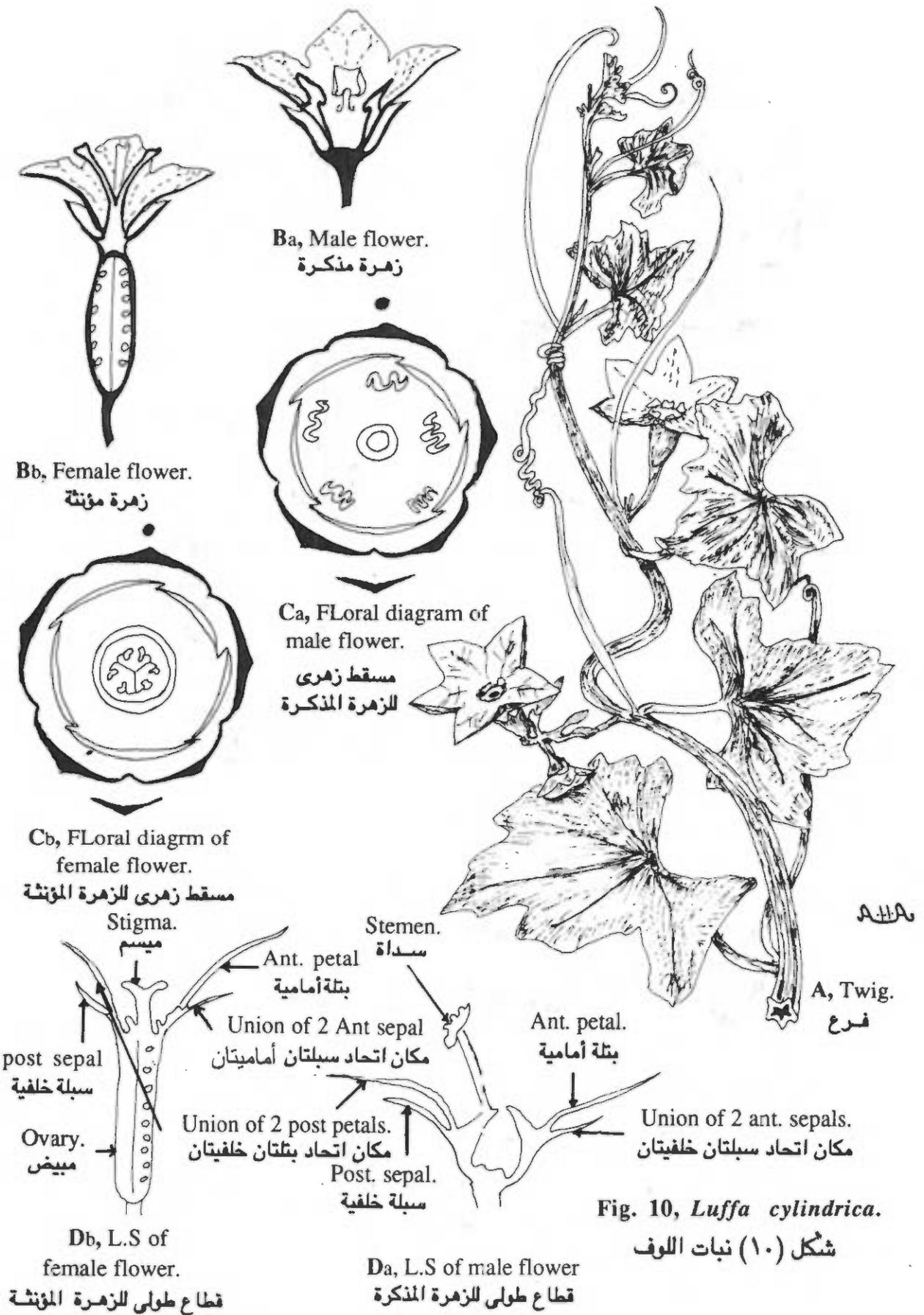
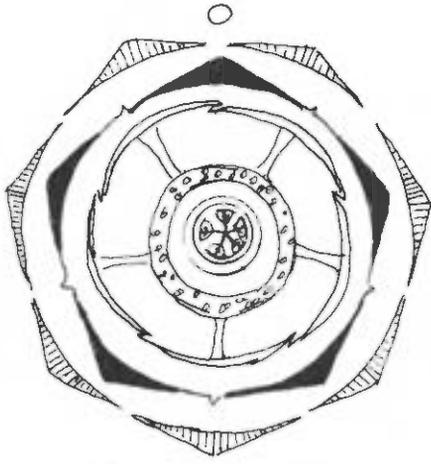


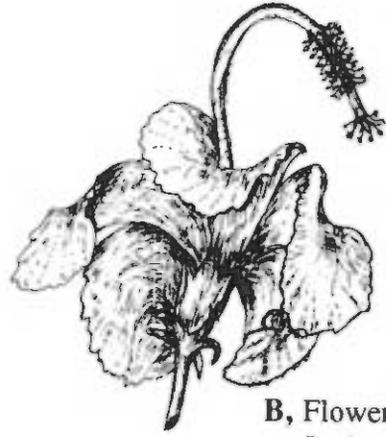
Fig. 10, *Luffa cylindrica*.

شكل (١٠) نبات اللوف



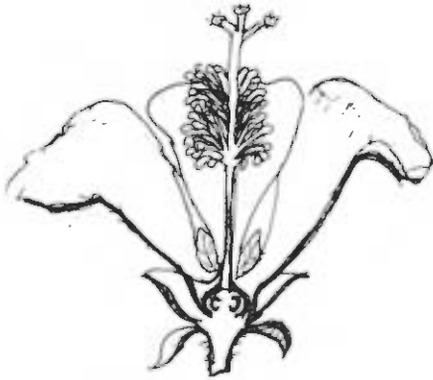
C, Floral diagram.

مسقط زهرى



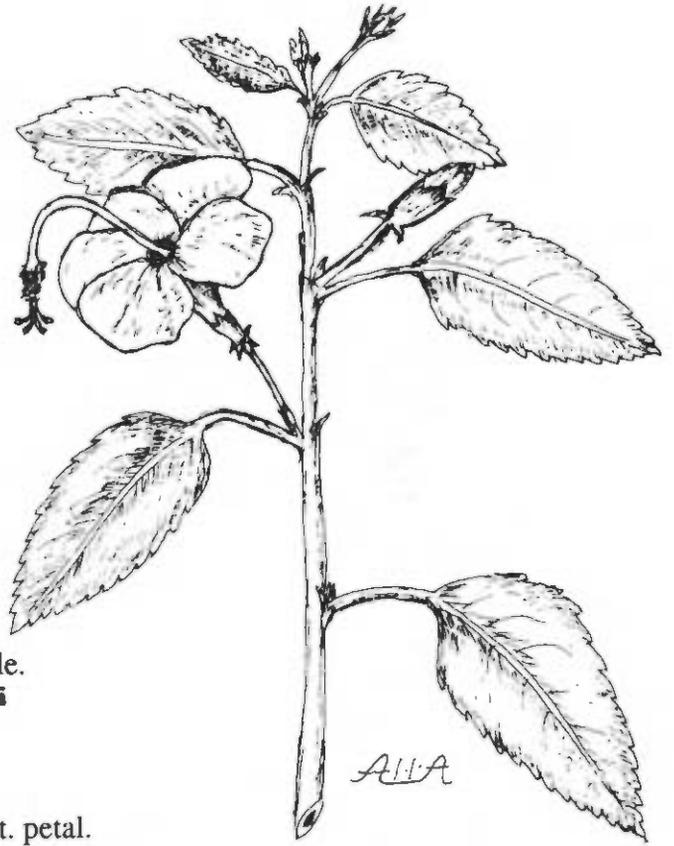
B, Flower.

زهرة



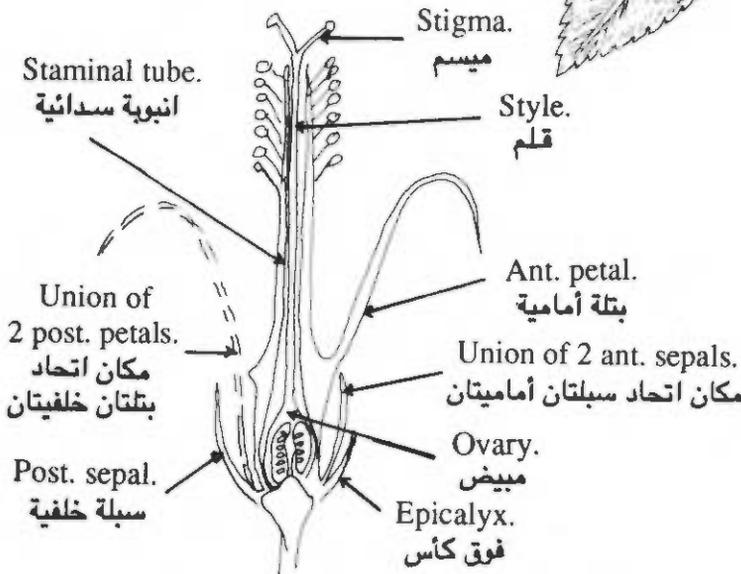
D, L.S. of flower.

قطاع طولى للزهرة .



A, Twig.

فرع



Ea, Diagrammatic

L.S. of flower.

قطاع طولى تخطيطى للزهرة

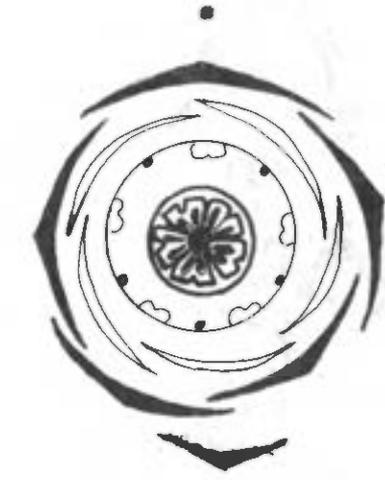


Eb, T.S of ovary.

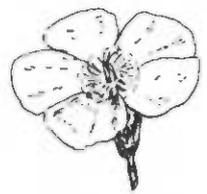
قطاع عرضى فى المبيض

Fig. 11, *Hibiscus rosa - sinensis*.

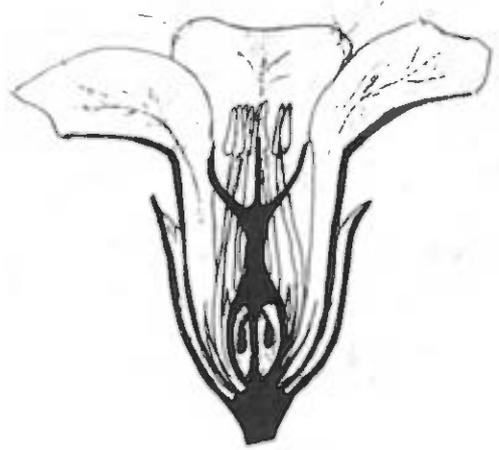
شكل (١١) نبات الهيسكس .



C, Floral diagram.
مسقط زهرى



B, Flower.
زهرة



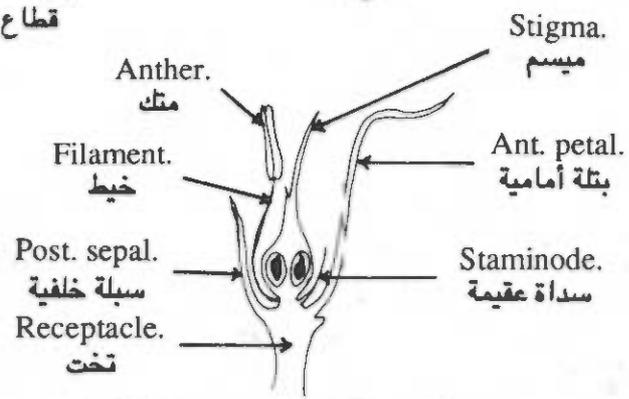
D, L.S. of flower.
قطاع طولى للزهرة



F, Fruit.
ثمرة



A, Twig.
فرع



E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة

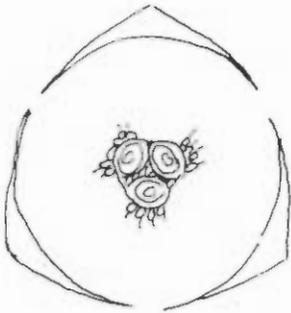
Fig. 12, *Linum usitatissimum*.
شكل (١٢) نبات الكتان



Bb, Female flower.
زهرة مؤنثة



Cb, L.S. of female flower.
قطاع طولى للزهرة المؤنثة



Db, Floral diagram of female flower.
مسقط زهري للزهرة المؤنثة



F, Seed.
بذرة



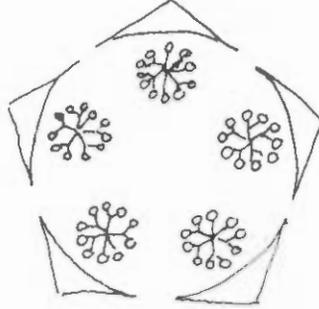
Ab, Leaf.
ورقة



Ba, Male flower.
زهرة مذكرة



Ca, Stamen.
سداة

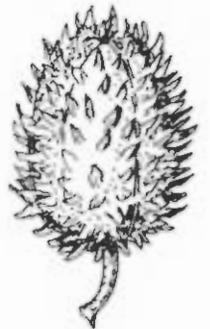


Da, Floral diagram of male flower.
مسقط زهري للزهرة المذكرة

Fig. 13, *Ricinus communis*.
شكل (١٣) نبات الخروع .



Aa, Flowering twig.
فرع مزهر



E, Fruit.
ثمرة

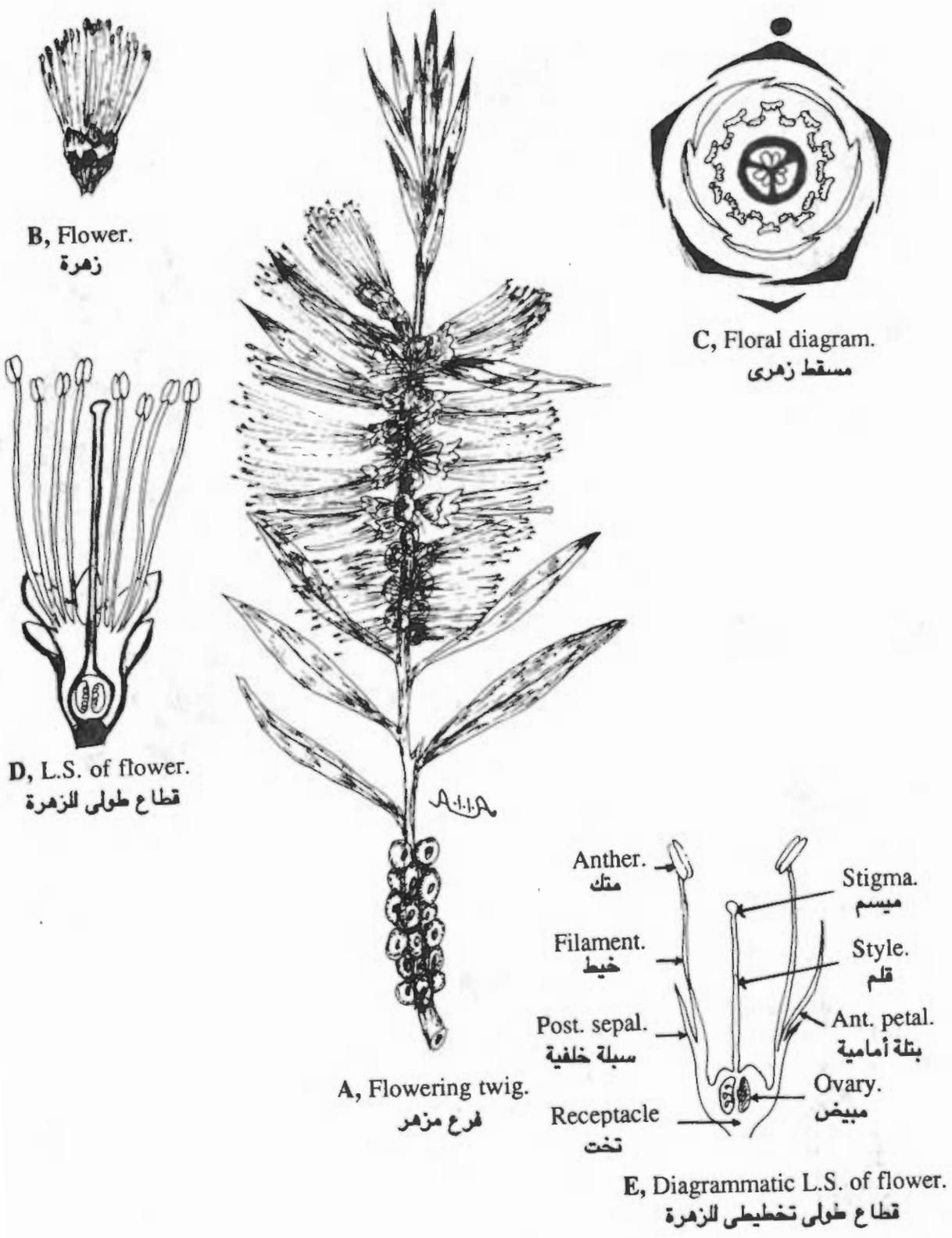
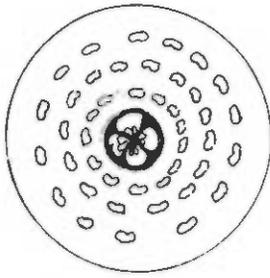


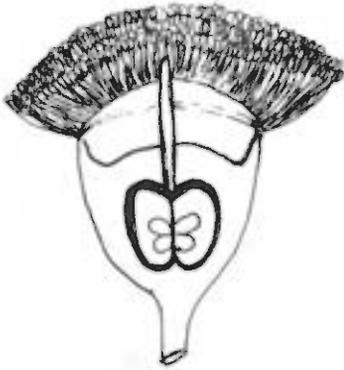
Fig. 14.1, *Callistmon lanceolatus*.
شكل (١-١٤) نبات فرشاة الزجاج



C, Floral diagram
مسقط زهرى



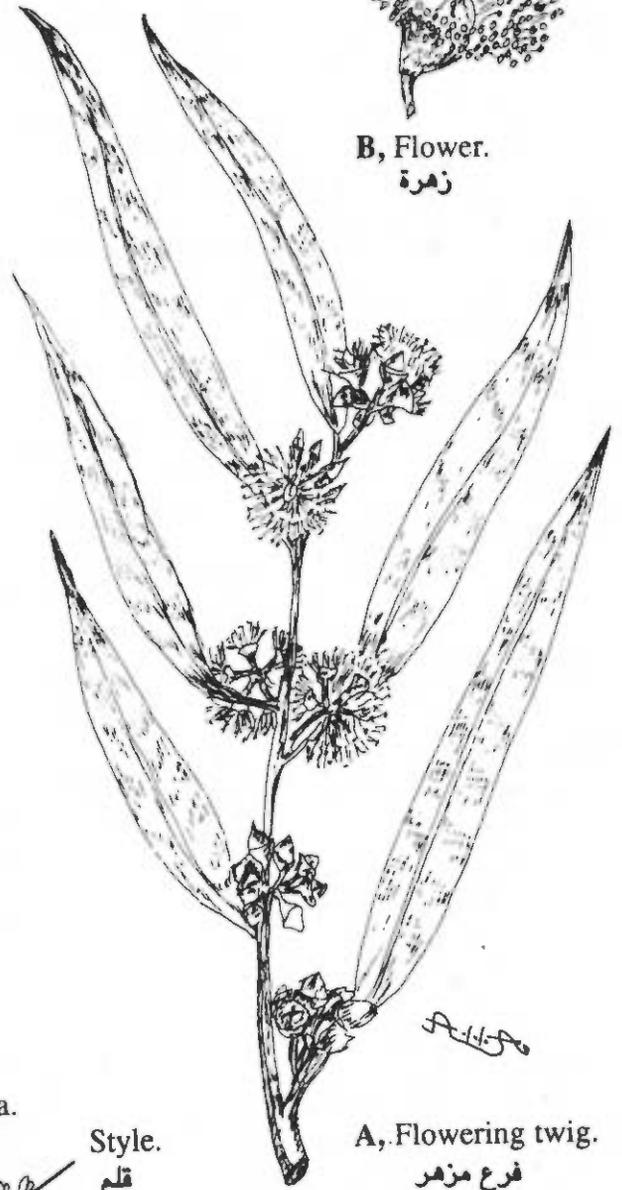
B, Flower.
زهرة



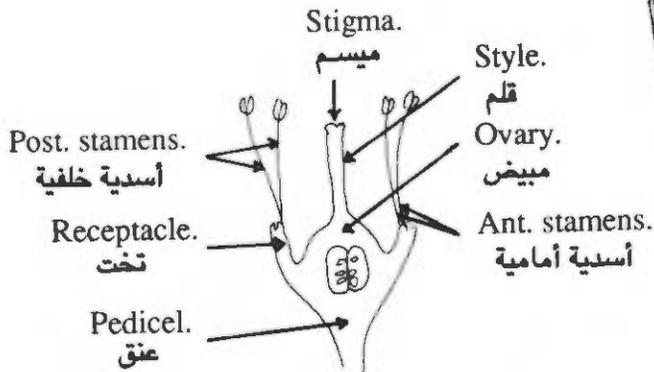
D, L.S. of flower.
قطاع طولى للزهرة



F, Fruit.
ثمرة

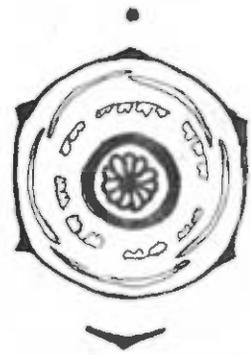


A, Flowering twig.
فرع مزهر

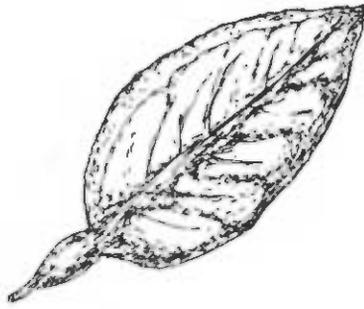


E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة

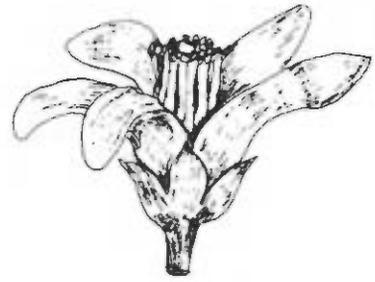
Fig. 14.2, *Eucalyptus rostrata*.
شكل (١٤-٢) نبات الكافور .



C, Floral diagram.
مسقط زهري



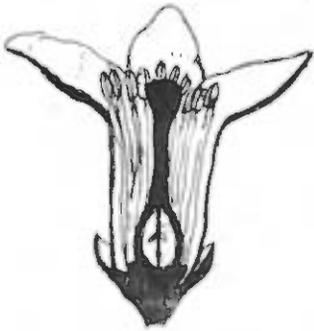
Ab, Leaf.
ورقة



B, Flower.
زهرة



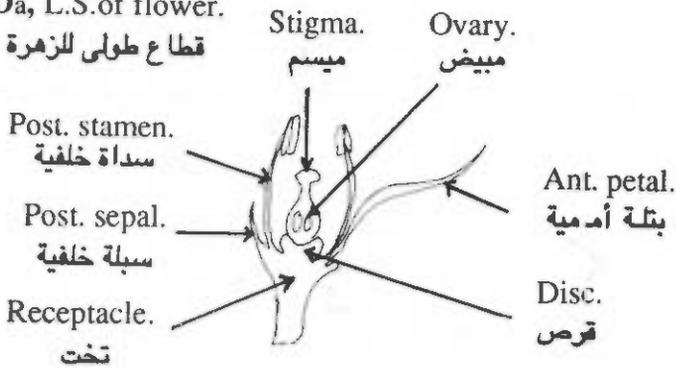
Db, Stamens.
الاسدية



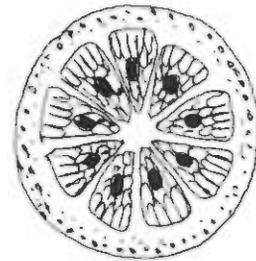
Da, L.S. of flower.
قطاع طولى للزهرة



Aa, Twig.
فرع



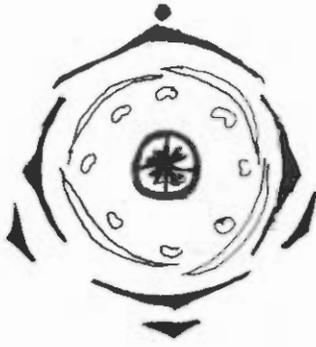
E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطي للزهرة



F, T.S. of fruit.
قطاع عرضي في الثمرة

Fig. 15.1, *Citrus aurantium*.

شكل (١٥-١) نبات النارج



C, Floral diagram.
مسقط زهرى



Bb, Pentamerous flower.
زهرة خماسية



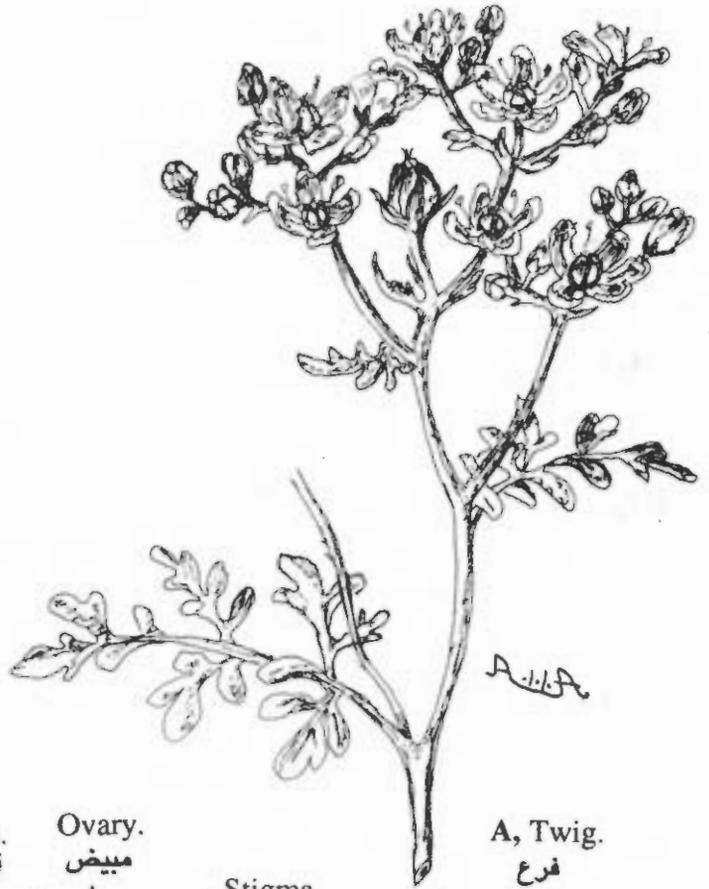
Ba, Tetramerous flower.
زهرة رباعية



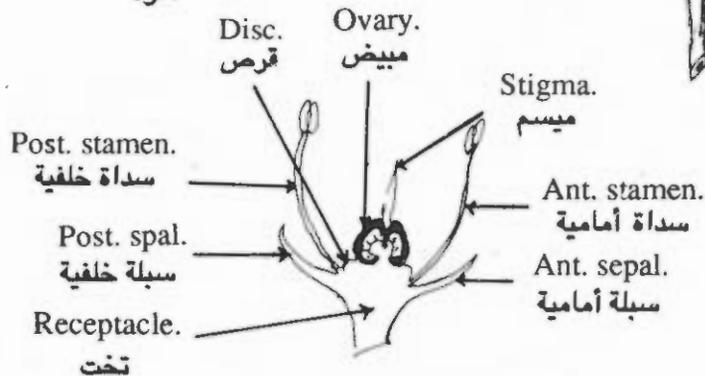
D, L.S. of flower.
قطاع طولى للزهرة



F, Fruit.
ثمرة



A, Twig.
فرع

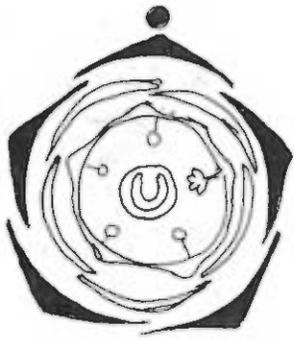


E, Diagrammatic L.S. of flower.

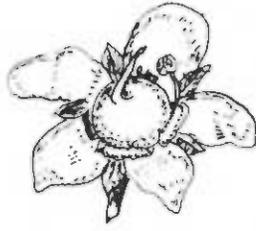
قطاع طولى تخطيطى للزهرة

Fig. 15.2, *Ruta graveolens*.

شكل (١٥-٢) نبات السذب .



C, Floral diagram.
مسقط زهرى



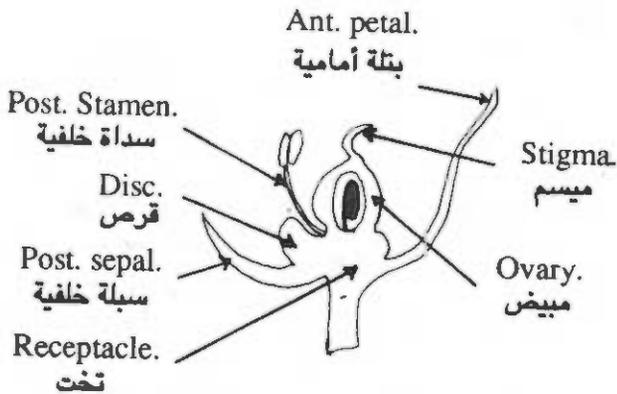
B, Flower.
زهرة



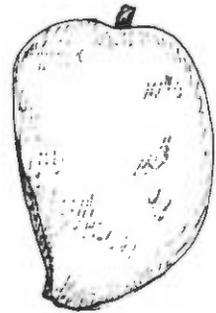
A, Twig.
فرع



D, L.S. of flower.
قطاع طولى للزهرة



E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة



F, Fruit.
ثمرة

Fig. 16, *Mangifera indica*.
شكل (١٦) نبات المانجو

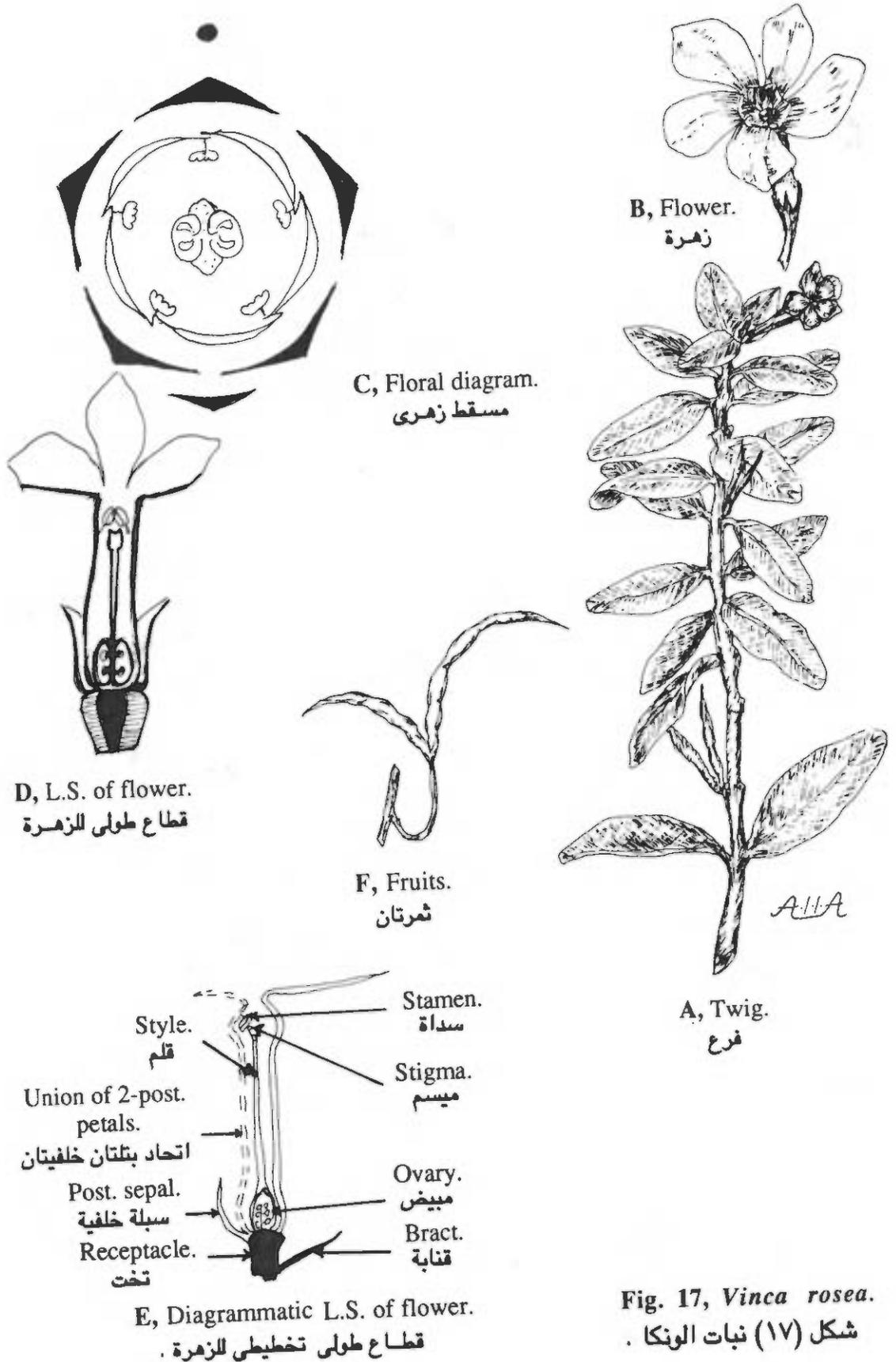
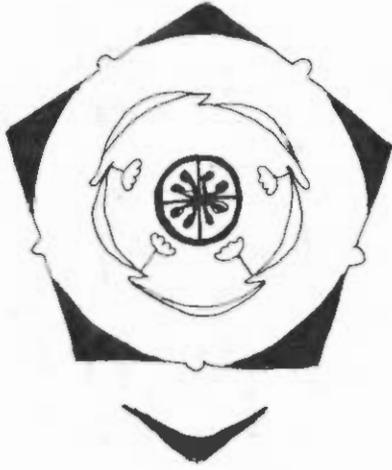
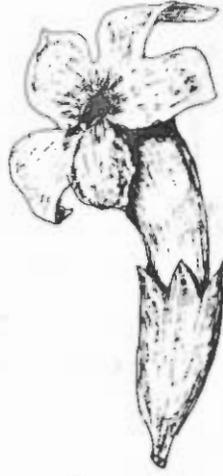


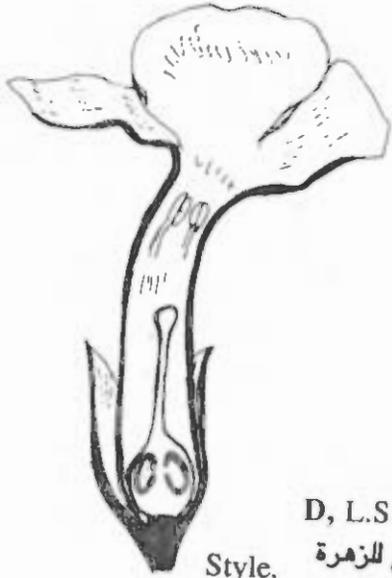
Fig. 17, *Vinca rosea*.
 شكل (١٧) نبات الونكا .



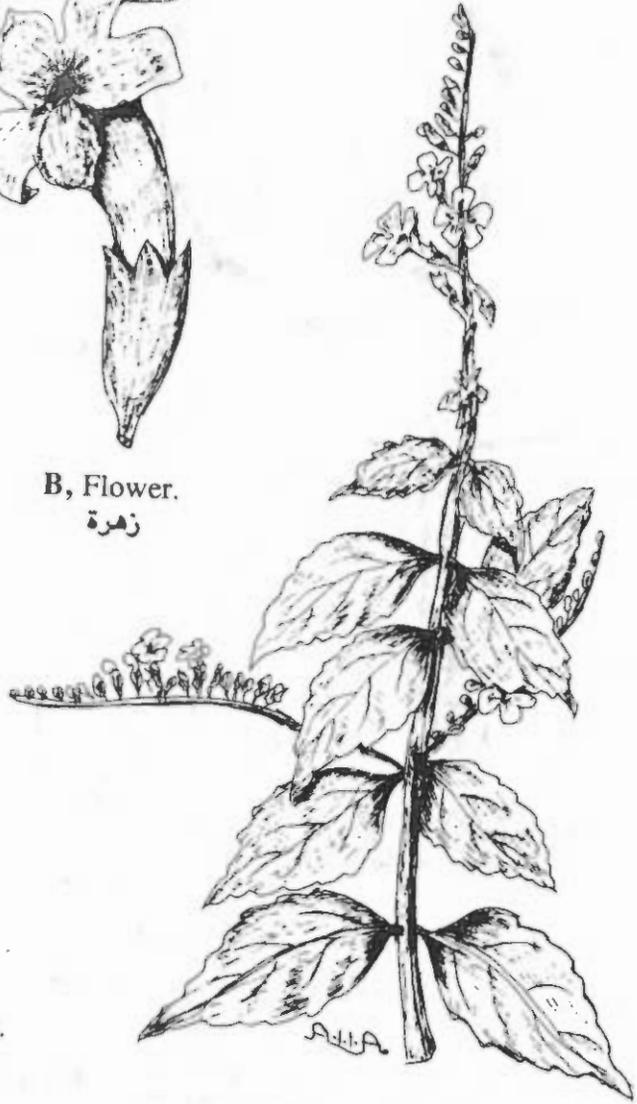
C, Floral diagram.
مسقط زهرى



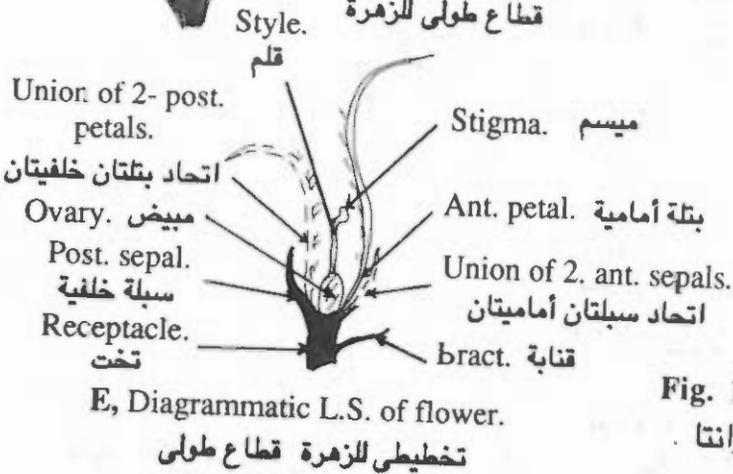
B, Flower.
زهرة



D, L.S. of flower.
قطاع طولى للزهرة

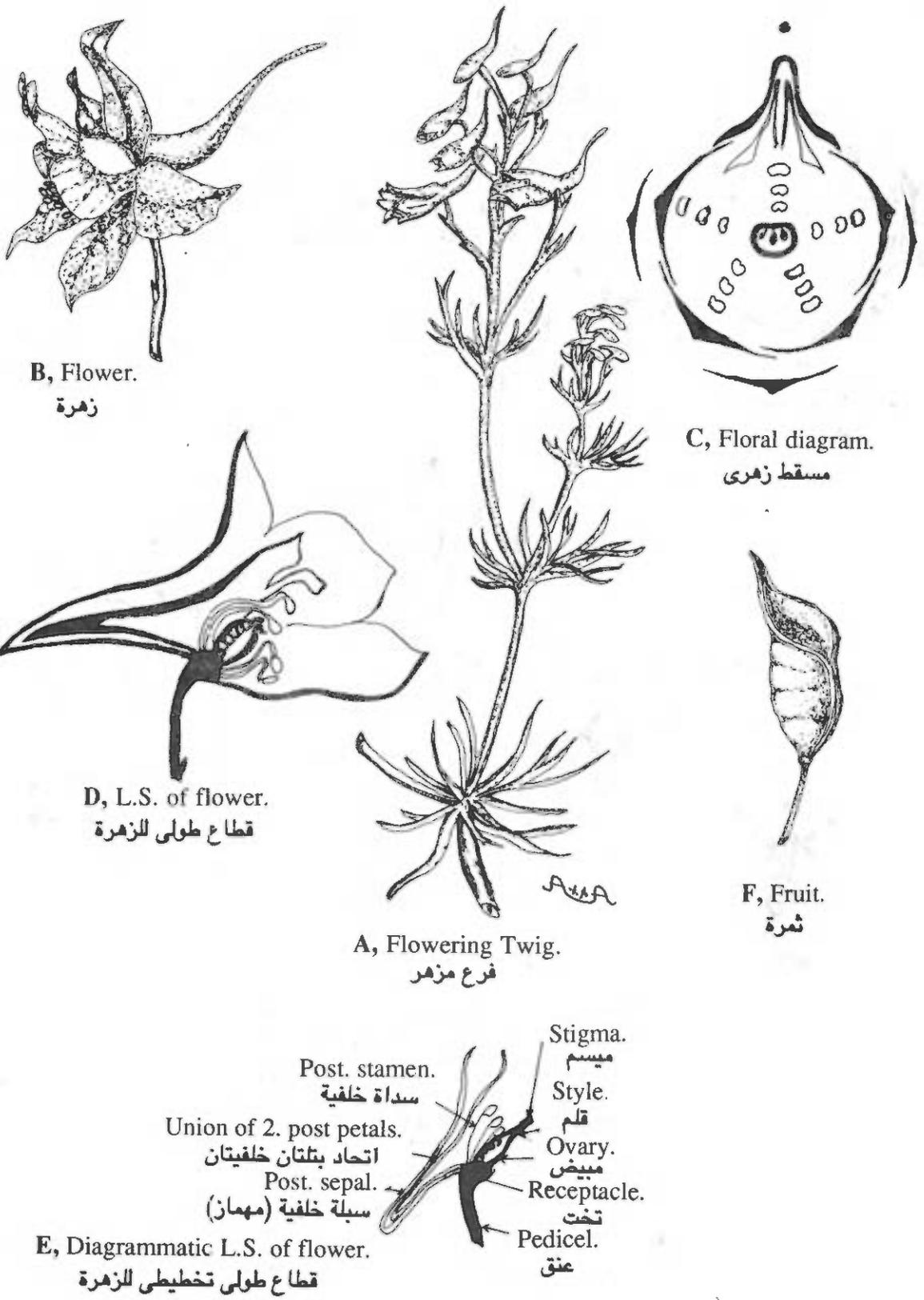


A, Flowering Twig.
فرع مزهر



E, Diagrammatic L.S. of flower.
تخمينى للزهرة قطاع طولى

Fig. 18, *Duranta repens*.
شكل (١٨) نبات الدورانتا .



B, Flower.
زهرة

C, Floral diagram.
مسقط زهرى

D, L.S. of flower.
قطاع طولى للزهرة

A, Flowering Twig.
فرع مزهر

F, Fruit.
ثمرة

E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة

Stigma. ميسم
 Style. قلم
 Ovary. مبيض
 Receptacle. تخت
 Pedicel. عنق
 Post. stamen. سداة خلفية
 Union of 2. post petals. اتحاد بثلتان خلفيتان
 Post. sepal. سبلة خلفية (مهماز)

Fig. 19.1, *Delphinium ajacis*.
شكل (١٩-١) نبات العايق

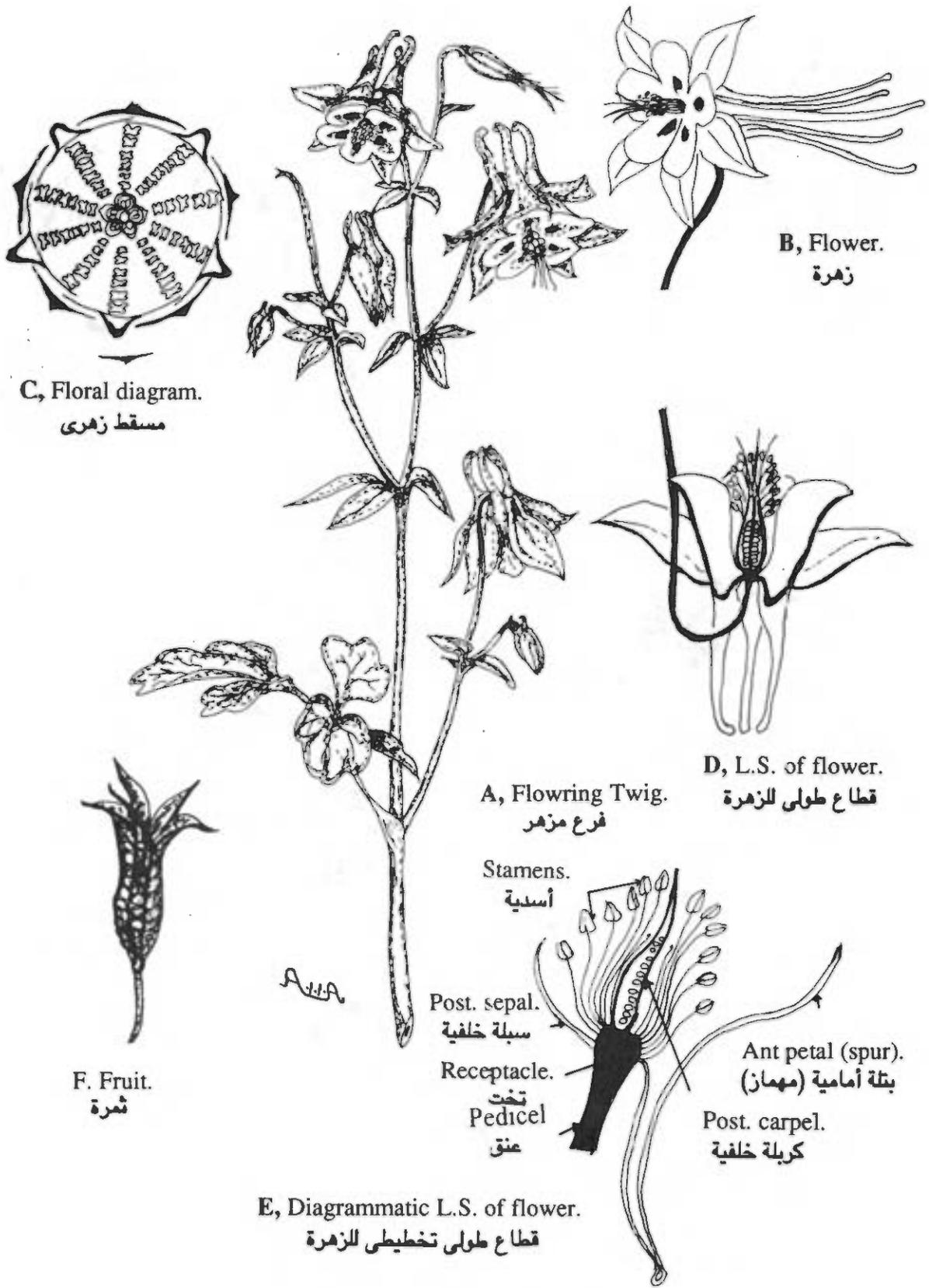
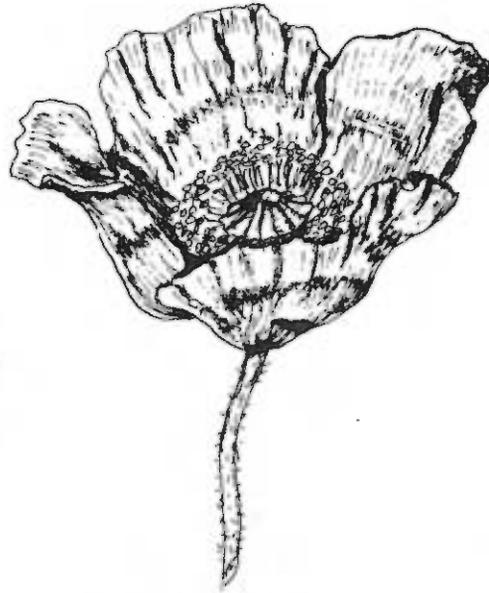


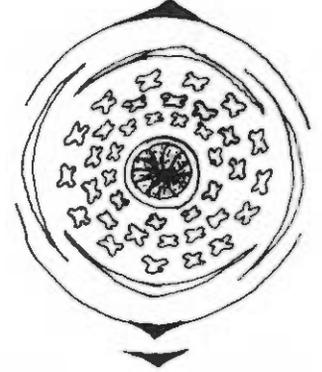
Fig. 19.2, *Aquilegia vulgaris*.
 شكل (١٩-٢) نبات أكوليجيا



A, Plant.
النبات



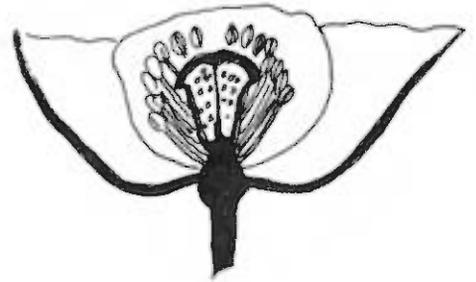
Bb, Flower.
زهرة



C, Floral diagram.
مسقط زهري



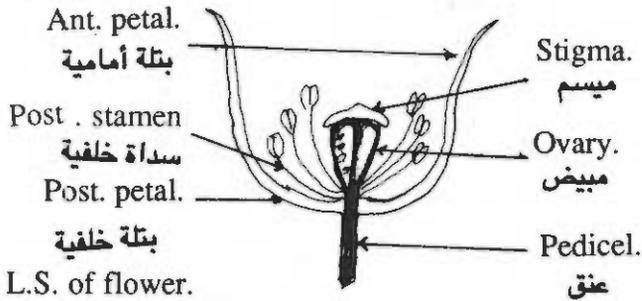
Ba, Flower bud before fall the calyx.
البرعم الزهري قبل سقوط الكأس



D, L.S. of flower.
قطاع طولى للزهرة



Fb, T.S. of ovary.
قطاع عرضي في المبيض

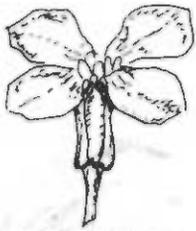


E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطي للزهرة



Fa, Fruit.
ثمرة

Fig. 20, *Papaver rhoeas*.
شكل (٢٠) نبات الخشخاش البري



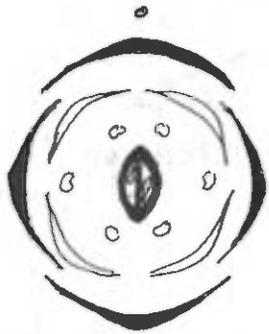
Ba, Flower.

زهرة



Bb, Flower, perianth excised.

زهرة منزوعة الغلاف الزهري



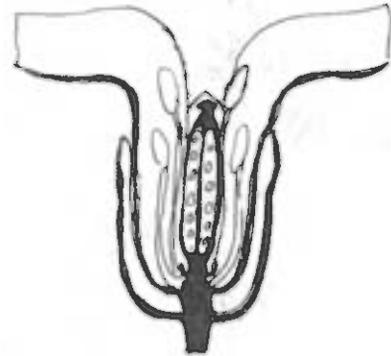
C, Floral diagram.

مسقط زهري



A, Flowering twig.

فرع مزهر



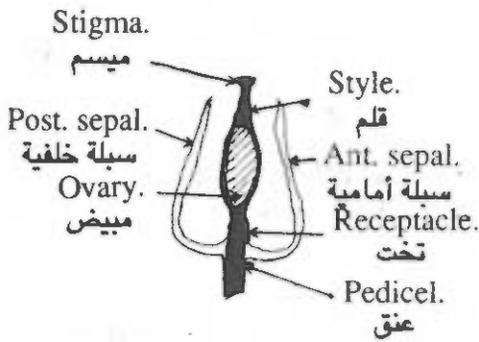
D, L.S. of flower.

قطاع طولى للزهرة



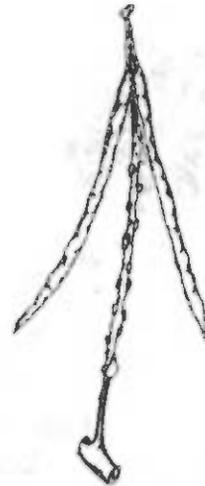
Fa, Fruit.

ثمرة



E, Diagrammatic L.S. of flower.

قطاع طولى تخطيطى للزهرة



Fb, Dehiscent fruit.

ثمرة متفتحة

Fig. 21, *Matthiola incana*.

شكل (٢١) نبات المنثور

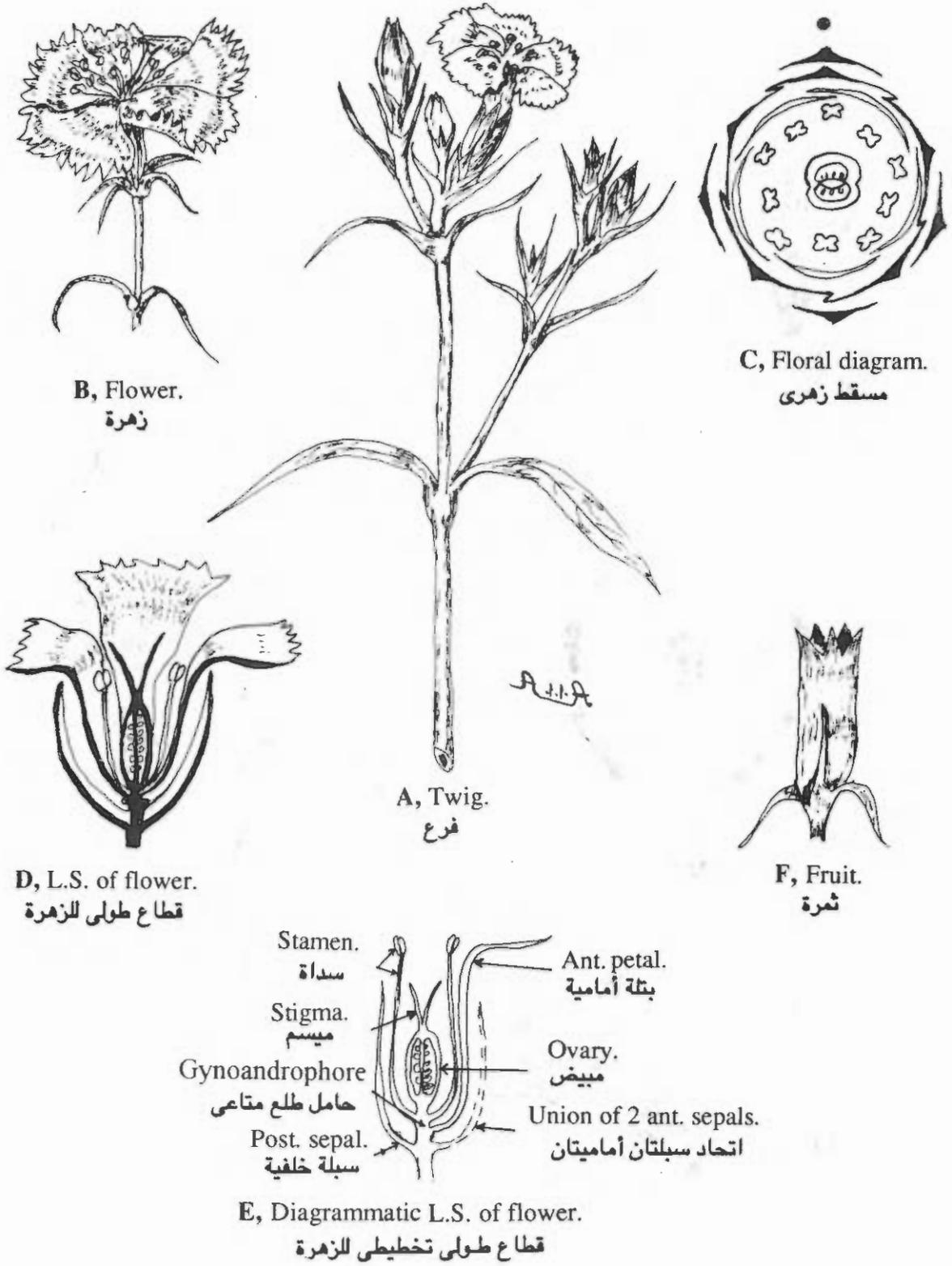
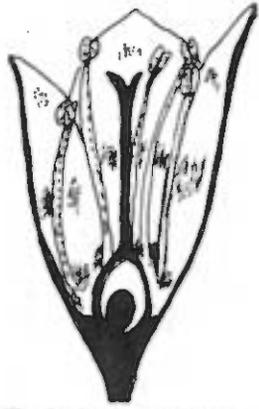
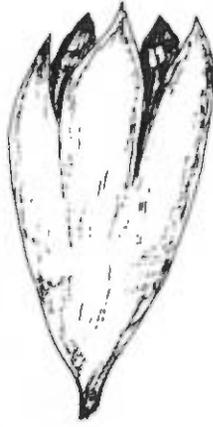


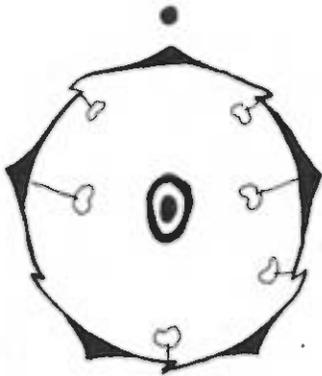
Fig. 22, *Dianthus caryophyllatus*.
شكل (٢٢) نبات القرنفل المفرد



D, L.S. of flower.
 قطاع طولى للزهرة



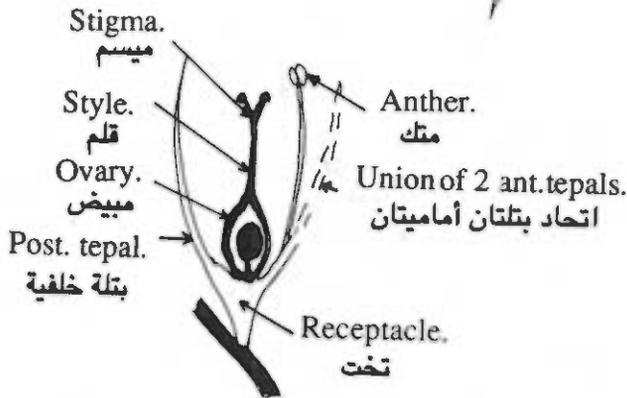
B, Flower.
 زهرة



C, Floral diagram.
 مسقط زهرى



A, Twig.
 فرع

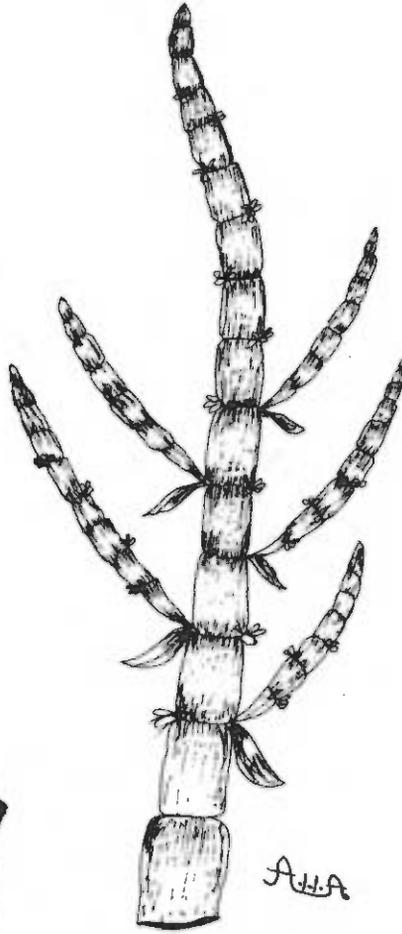


E, Diagrammatic L.S. of flower.
 قطاع طولى تخطيطى للزهرة

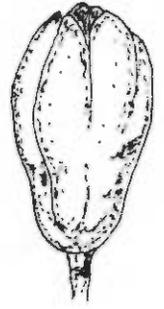
Fig.23.1, *Polygonum persicaria*.
 شكل (٢٣-١) نبات البوليجونيم (أبوركبة)



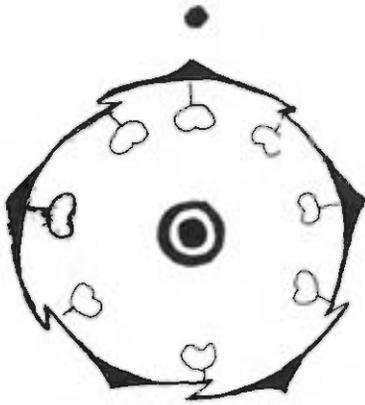
Ab, Group of flowers.
مجموعة أزهار



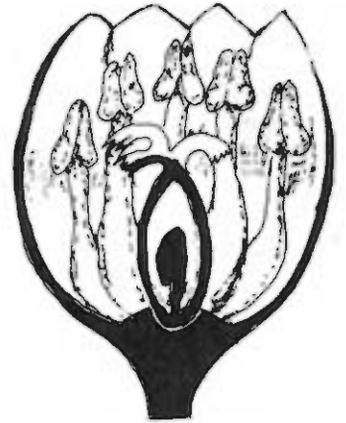
Aa, Twig.
فرع



B, Flower
زهرة



C, Floral diagram.
مسقط زهرى

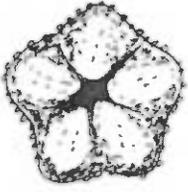


D, L.S. of flower.
قطاع طولى للزهرة



E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة

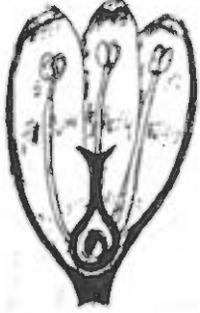
Fig. 23.2, *Muehlenbenbeckia platyclados*.
شكل (٢٣-٢٢) نبات المهلبنيكيا



Ba, Closed flower.
زهرة مغلقة



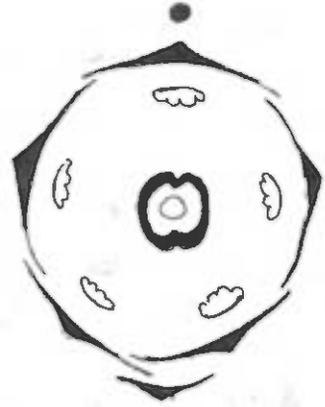
Bb, Open flower.
زهرة مفتوحة



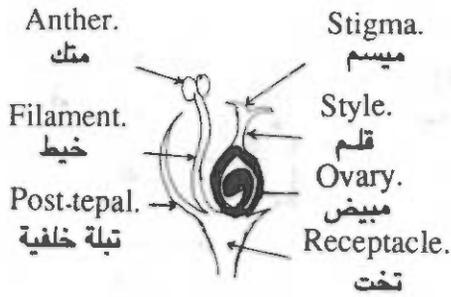
D, L.S of flower.
قطاع طولى للزهرة



A, Flowering twig.
فرع مزهر



C, Floral diagram.
مسقط زهرى



E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة

Fig. 24, *Chenopodium murale*.
شكل (٢٤) نبات الزربيع (المرام)

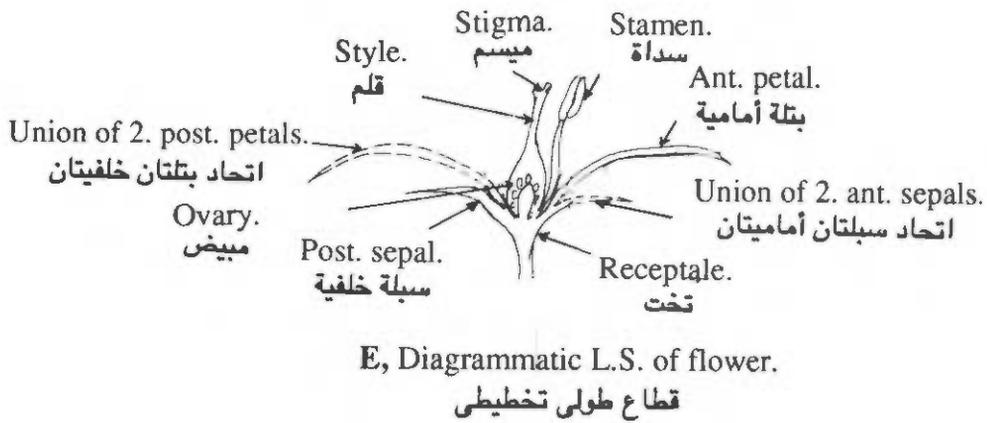
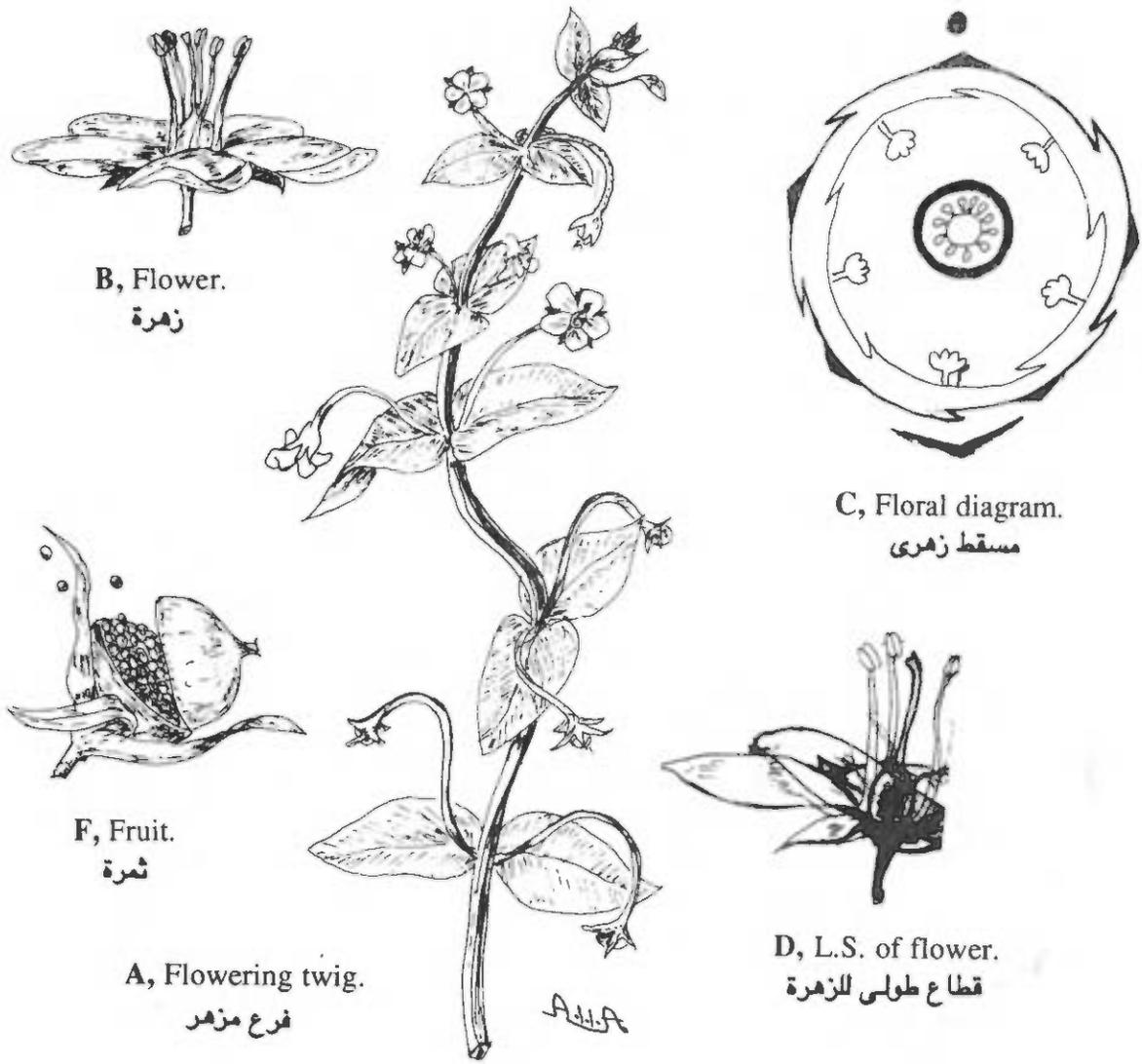


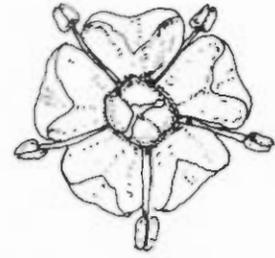
Fig. 25, *Anagallis arvensis*.

شكل (٢٥) نبات عين القط



Ba, Flower.

زهرة



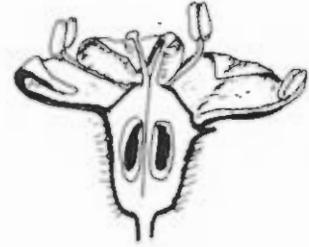
Bb, Top view of flower.

منظر قمى للزهرة



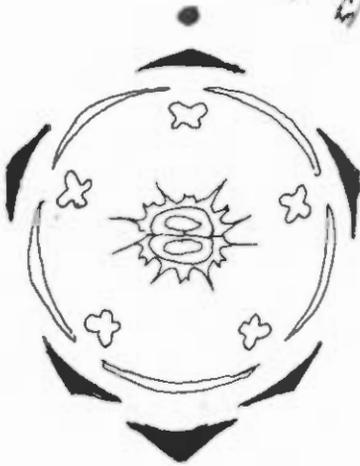
A, Plant.

النبات



D, L.S. of flower.

قطاع طولى للزهرة



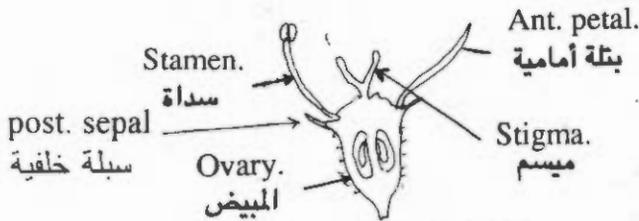
C, Floral diagram.

مسقط زهرى



F, Fruit.

الثمرة



E, Diagrammatic L.S. of flower.

قطاع طولى تخطيطى للزهرة

Fig. 26, *Daucus carota*.

شكل (٢٦) نبات الجزر

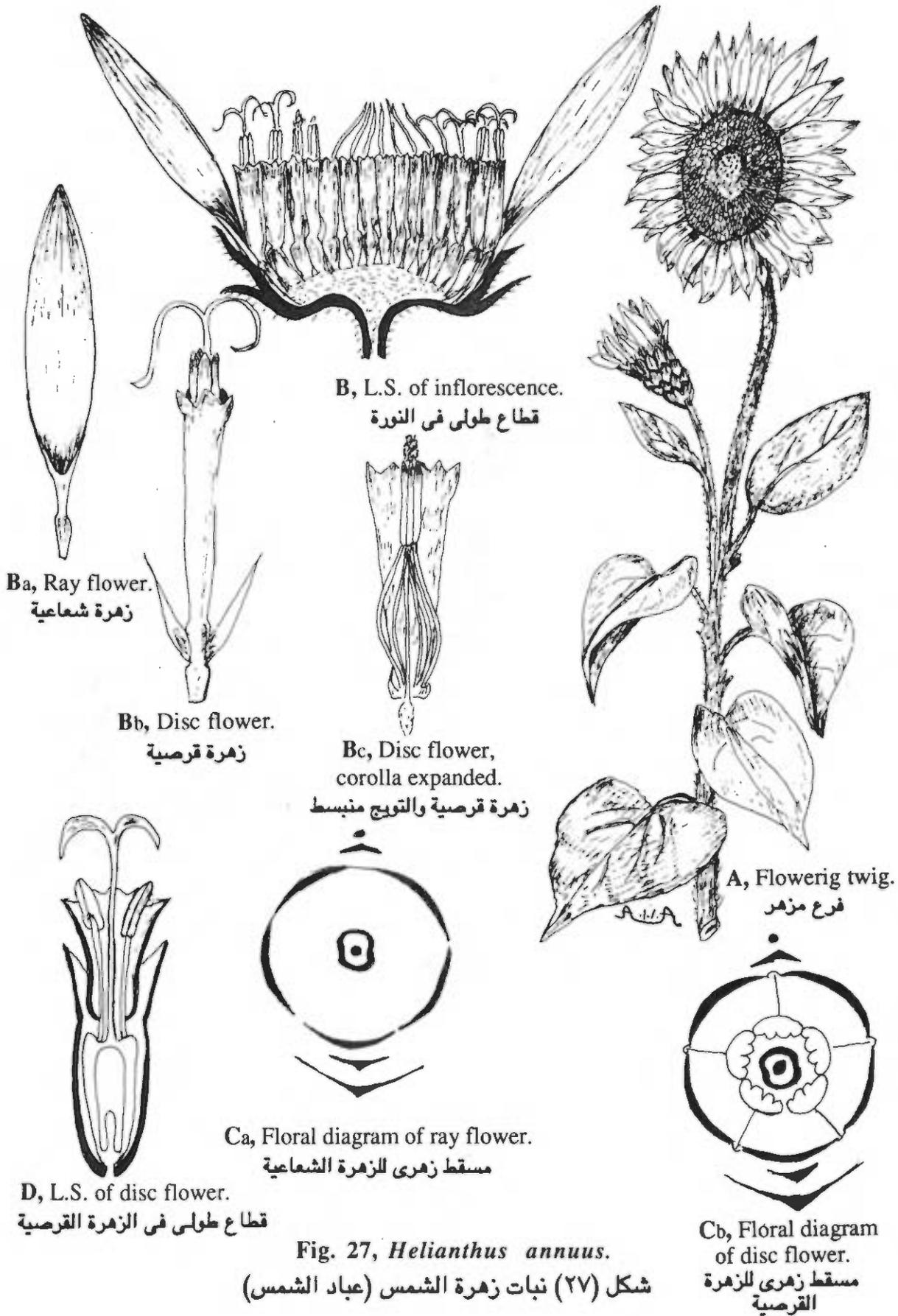
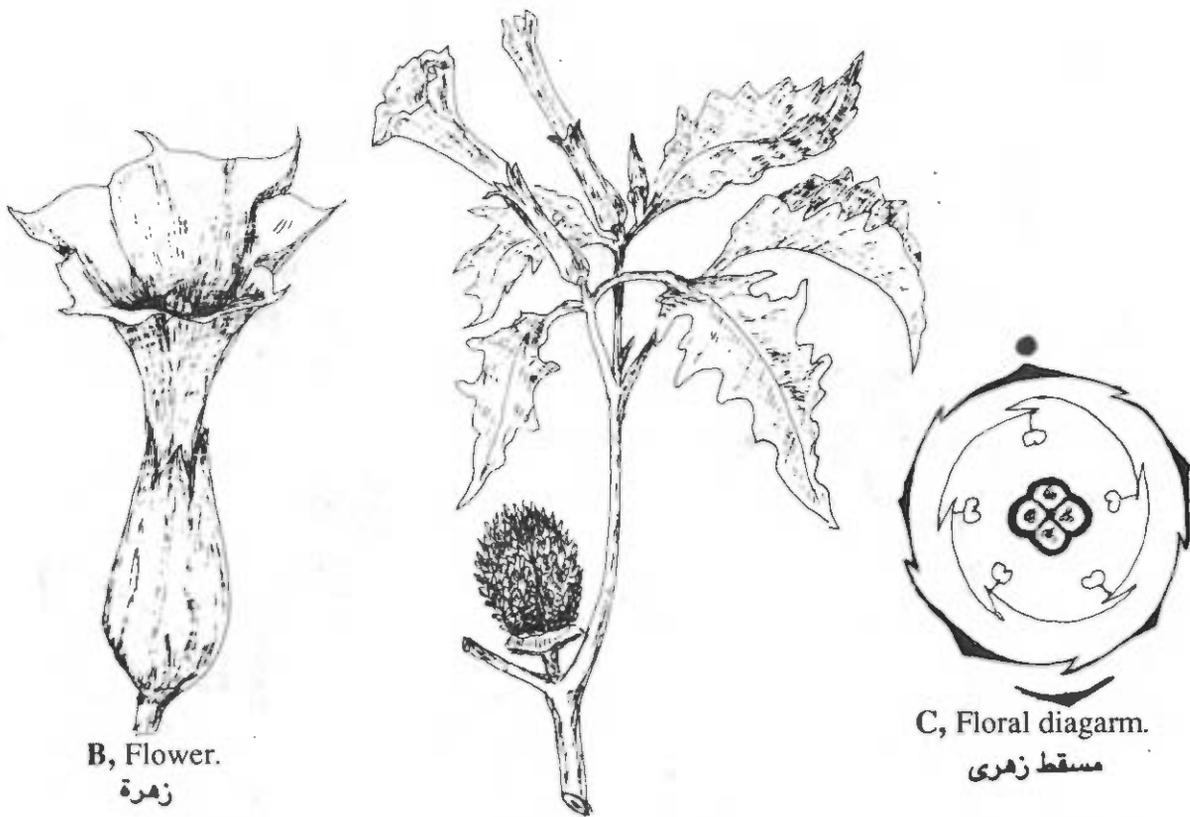


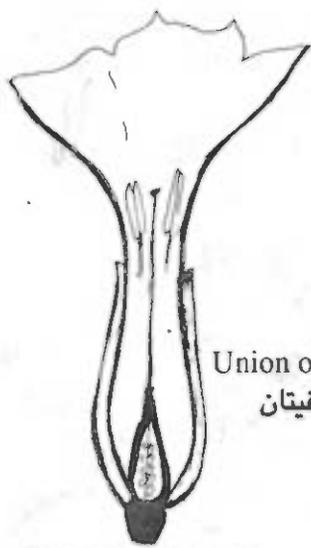
Fig. 27, *Helianthus annuus*.
 شكل (٢٧) نبات زهرة الشمس (عباد الشمس)



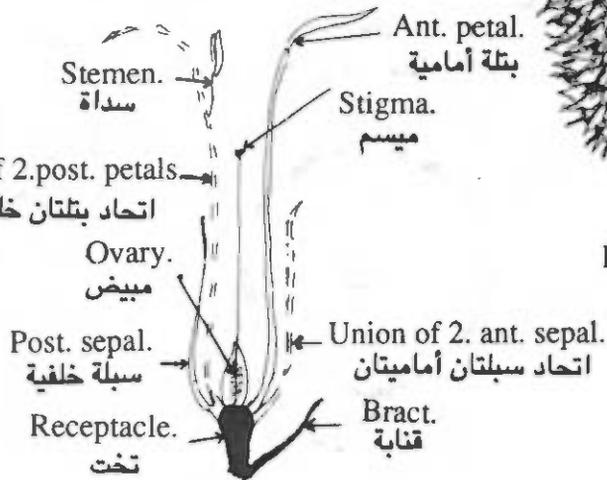
B, Flower.
زهرة

A, Flowering twig.
فرع مزهر

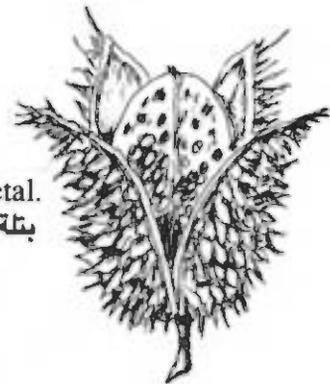
C, Floral diagram.
مسقط زهري



D, L.S. of flower.
قطاع طولى للزهرة

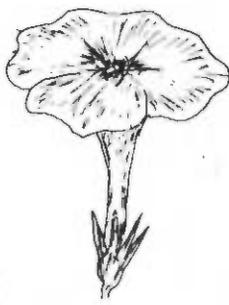


E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة

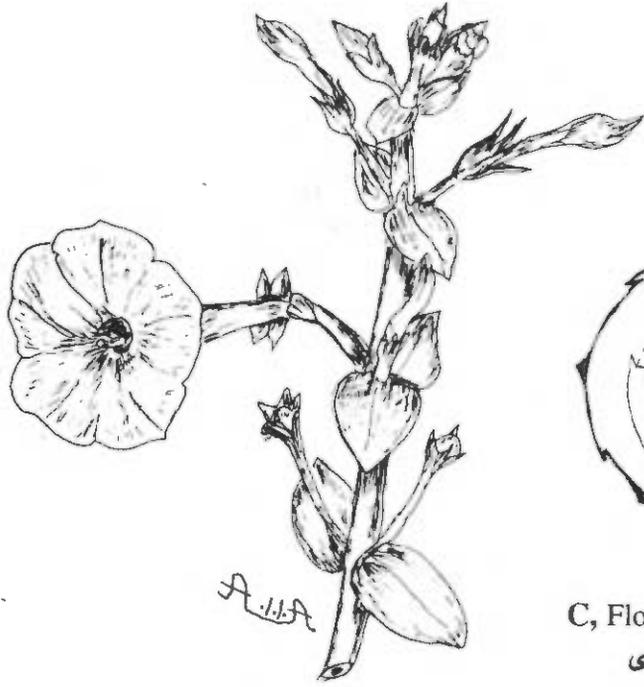


F, Fruit.
ثمرة

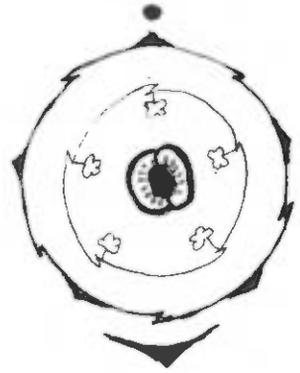
Fig. 28.1, *Datura stramonium*.
شكل (١-٢٨) نبات الداتورة



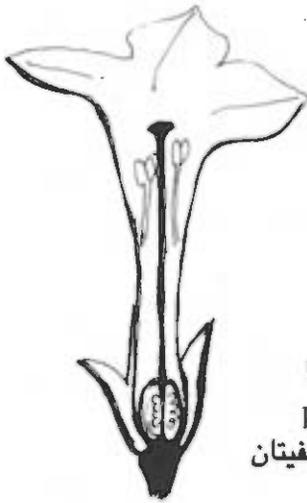
B, Flower.
زهرة



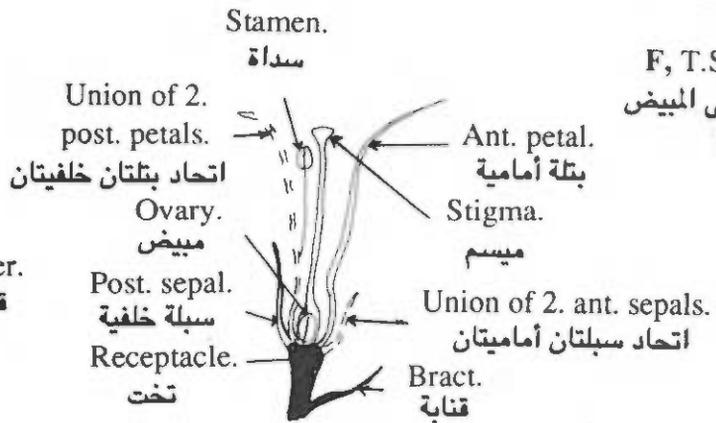
A, Flowering twig.
فرع مزهر



C, Floral diagram.
مسقط زهري



D, L.S. of flower.
قطاع طولى للزهرة



E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة



F, T.S. of ovary.
قطاع عرضى فى المبيض

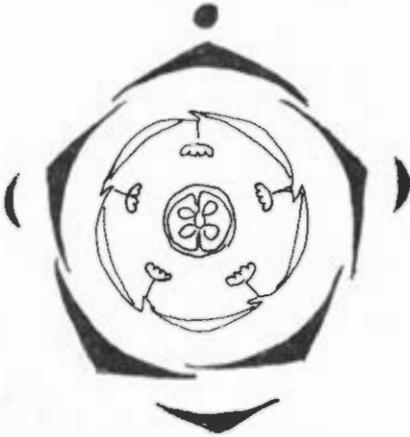
Fig. 28.2, *Petunia hybrida*.

شكل (٢٨-٢) نبات البيتونيا

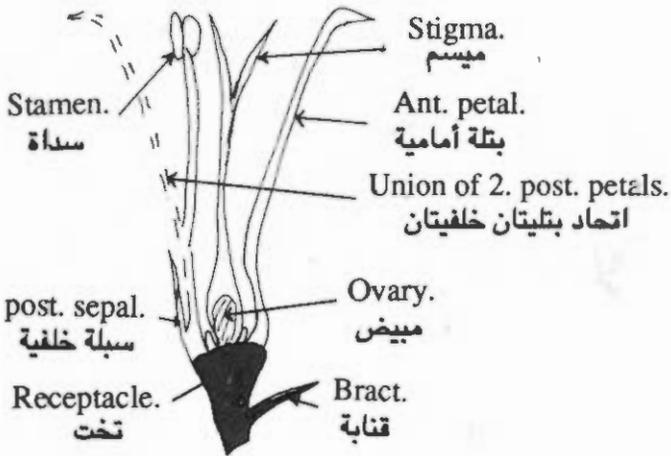
B, Flower.
زهرة



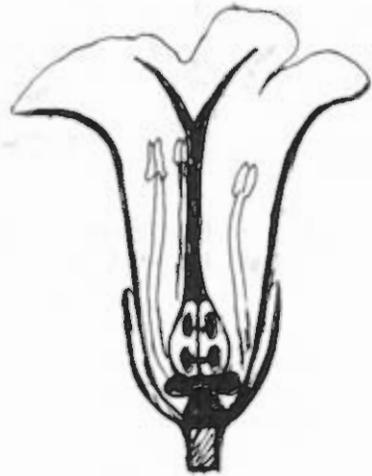
A, Flowering twig.
فرع مزهر



C, Floral diagram.
مستط زهري



E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة



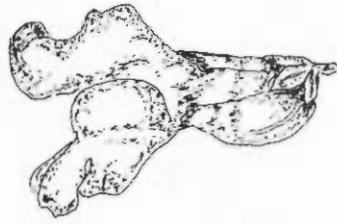
D, L.S. of flower.
قطاع طولى للزهرة

Fig. 29, *Convolvulus arvensis*.

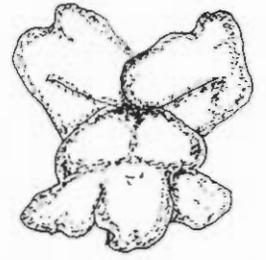
شكل (٢٩) نبات العليق



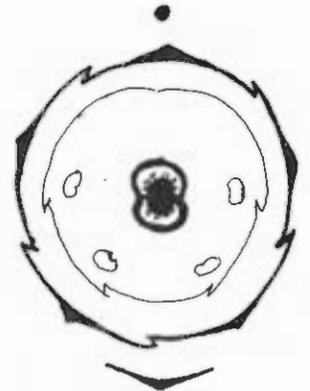
A, Flowering twig.
فرع مزهر



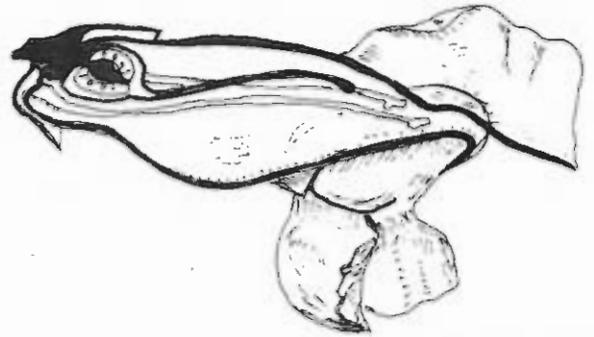
Ba, Flower, lateral view.
منظر جانبي للزهرة



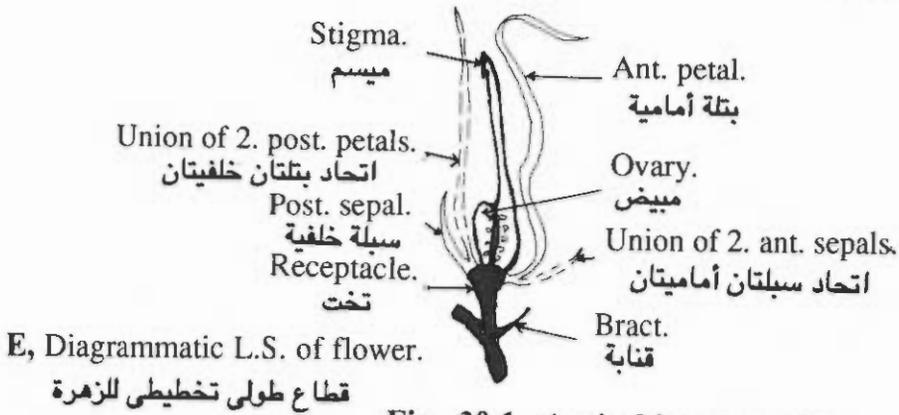
Bb, Flower, front view.
منظر أمامي للزهرة



C, Floral diagram.
مستط زهري

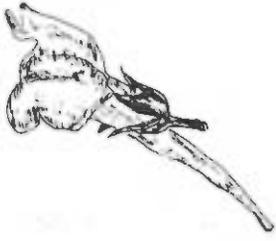


D, L.S. of flower.
قطاع طولى للزهرة



E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطي للزهرة

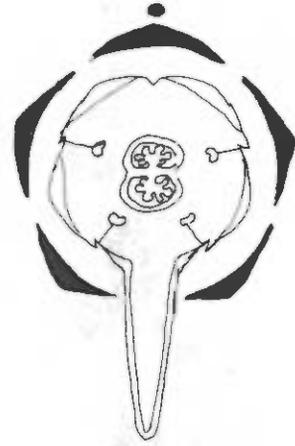
Fig. 30.1, *Antirrhinum majus*.
شكل (١-٣٠) نبات حنك السبع



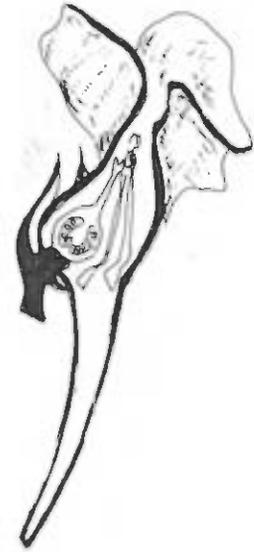
B, Flower.
زهرة



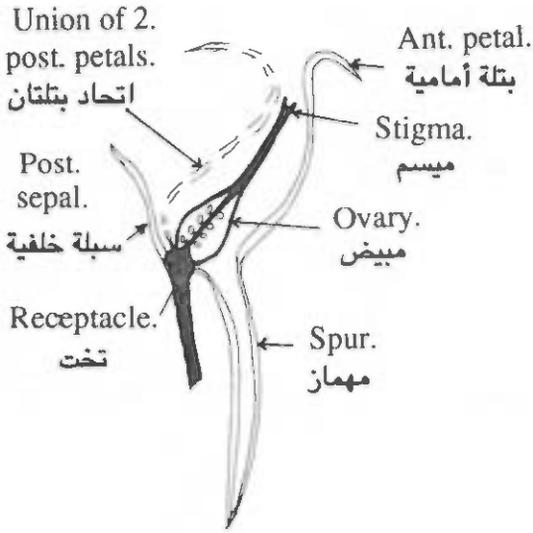
A, Flowering twig.
فرع مزهر



C, Floral diagram.
مستط زهري



D, L.S. of flower.
قطاع طولى للزهرة

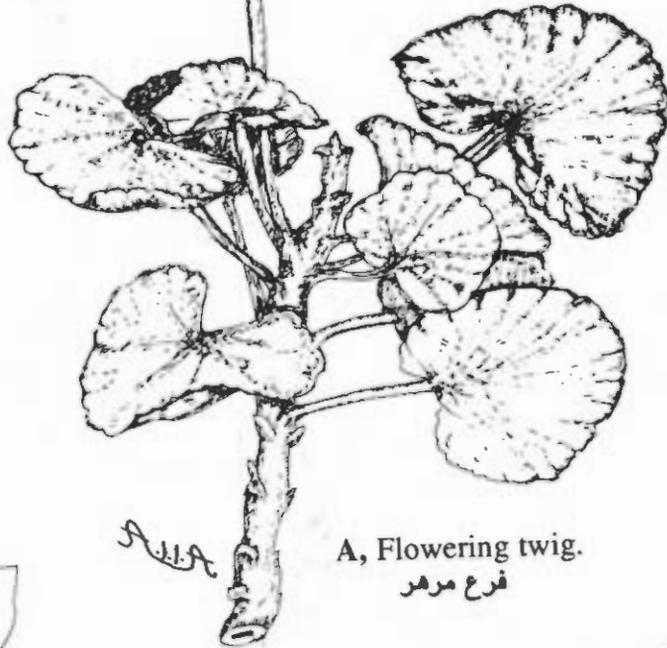
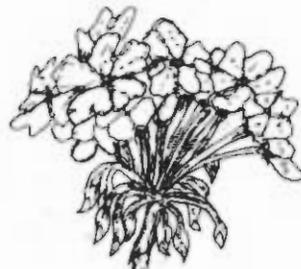


E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة

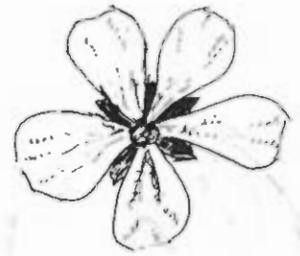
Fig. 30. 2, *Linaria vulgaris*.
شكل (٢٠-٢) نبات الليناريا



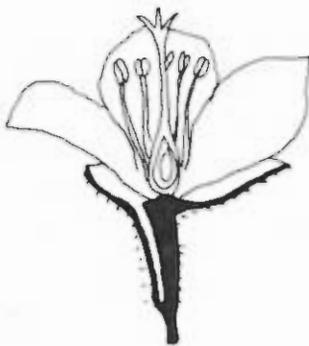
C, Floral diagram.
مسقط زهرى



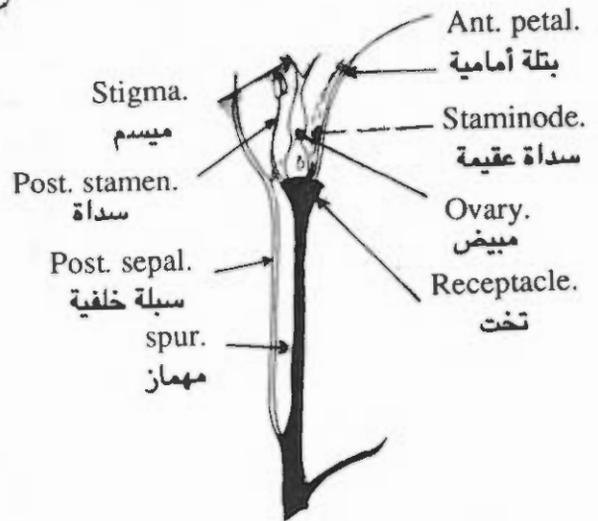
A, Flowering twig.
فرع مرهر



B, Flower.
زهرة

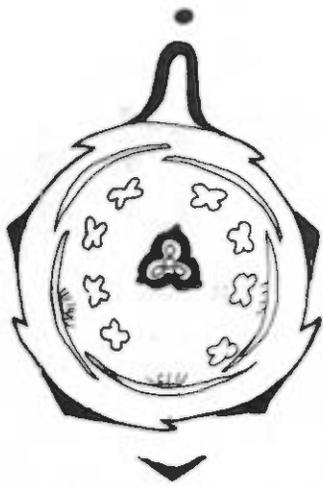


D, L.S. of flower.
قطاع طولى للزهرة



E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة

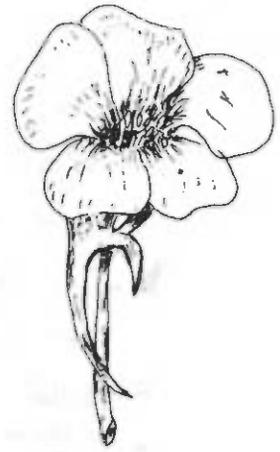
Fig. 31, *Pelargonium* sp.
شكل (٣١) نبات البلاجونيم



C, Floral diagram.
مسقط زهرى



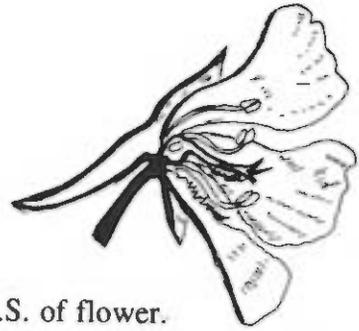
A, Flowering twig.
فرع مزهر



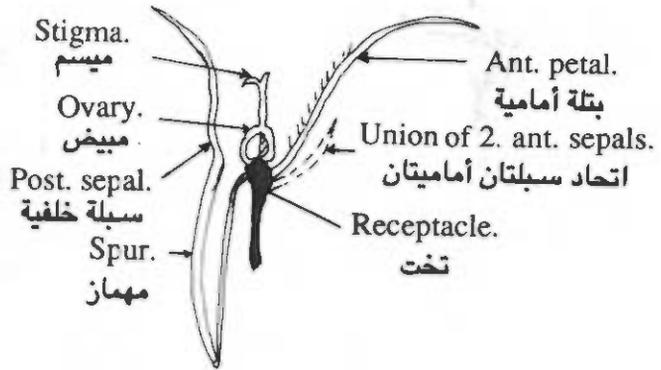
B, Flower.
زهرة



F, Fruit.
ثمرة

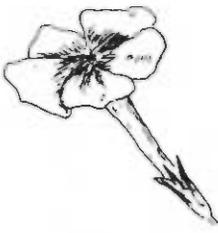


D, L.S. of flower.
قطاع طولى للزهرة



E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة

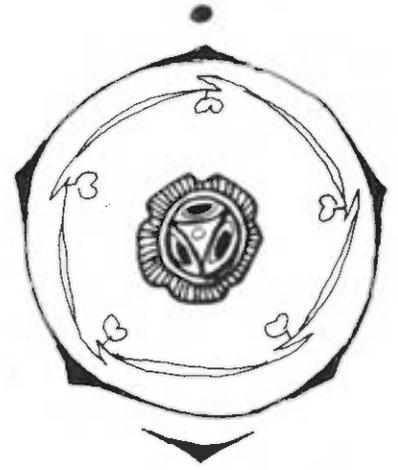
Fig. 32, *Tropaeolum majus*.
شكل (٣٢) نبات ابو خنجر



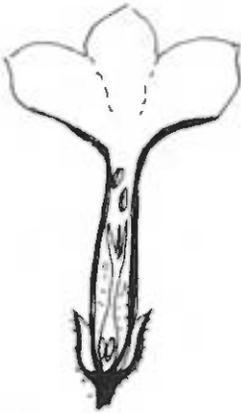
B, Flower.
زهرة



A, Flowering twig.
فرع مزهر



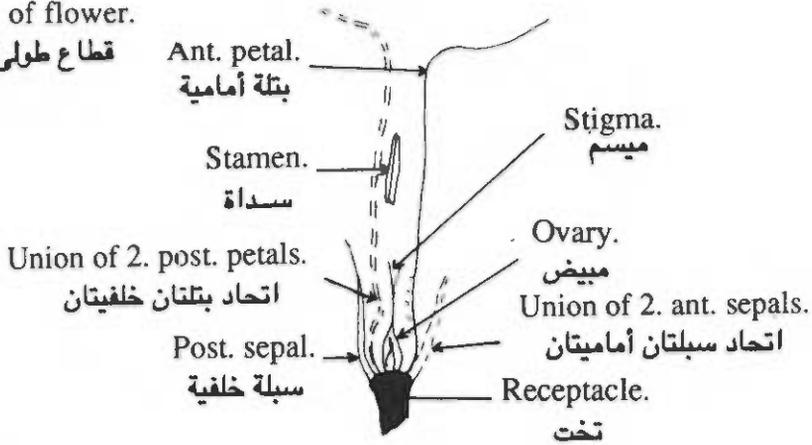
C, Floral diagram.
مستط زهري



D, L.S. of flower.
قطاع طولى للزهرة



F, Fruit.
ثمرة

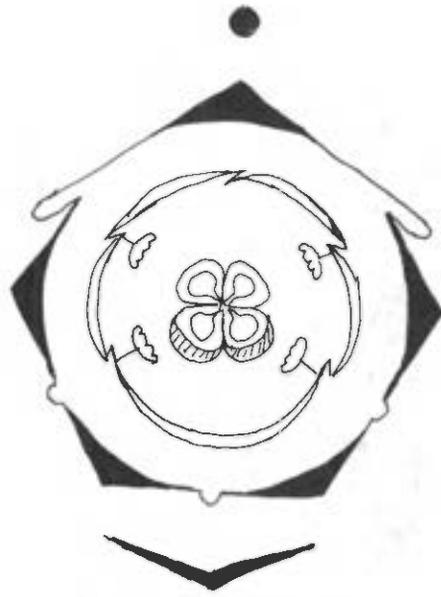


E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة

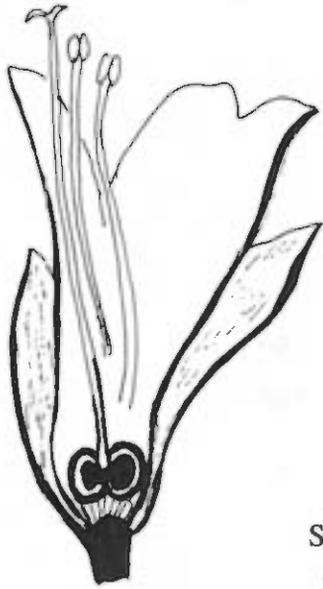
Fig. 33, *Phlox* sp.
شكل (٣٣) نبات الفلوكس



B, Flower.
زهرة



C, Floral diagram.
مقطع زهري



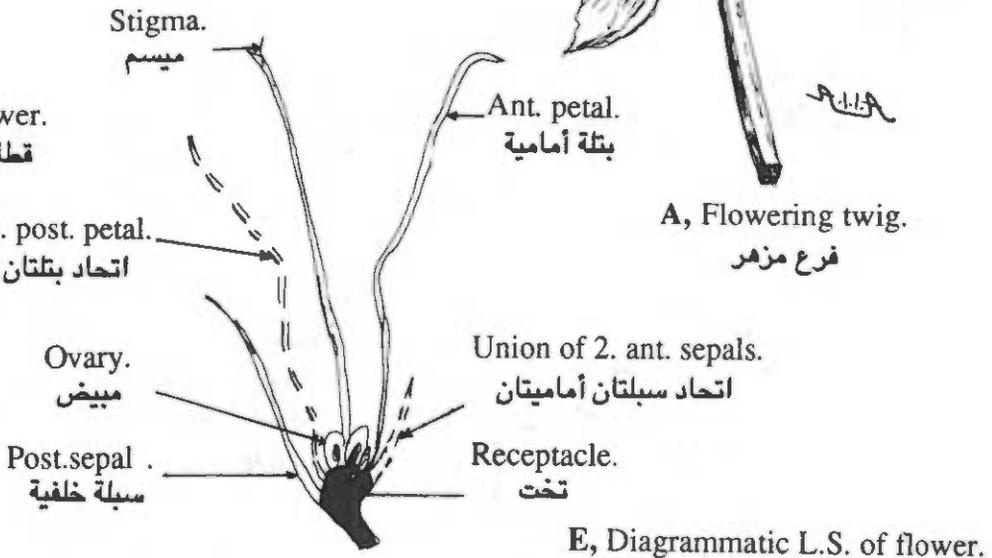
D, L.S. of flower.
قطاع طولى للزهرة



F, Fruit.
ثمرة

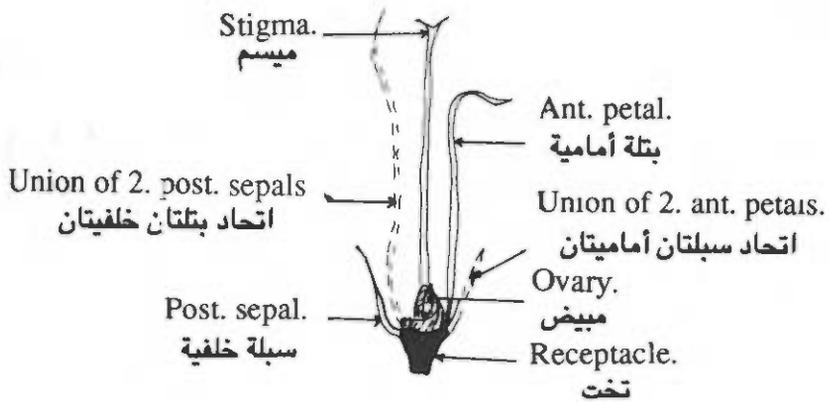
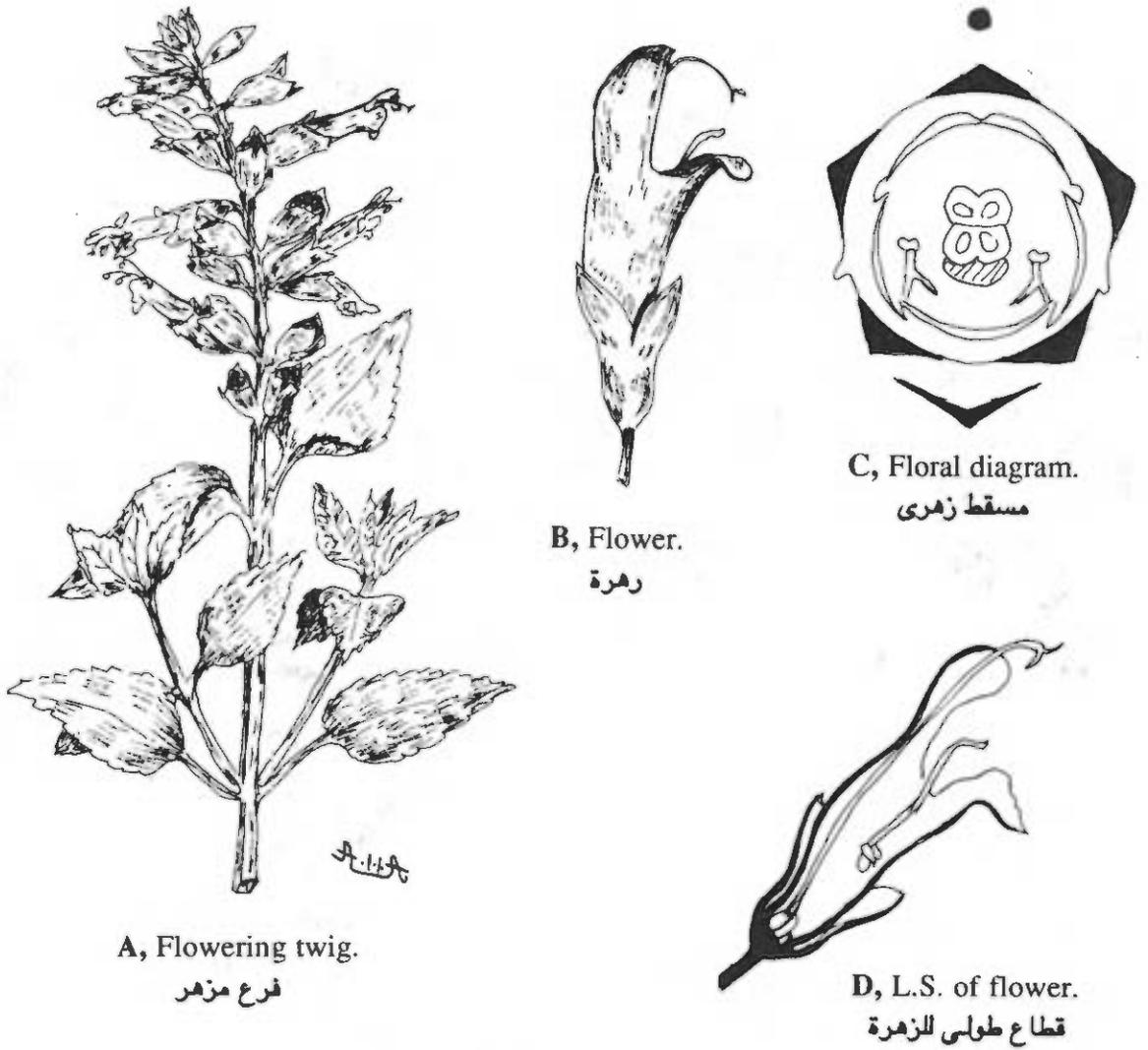


A, Flowering twig.
فرع مزهر



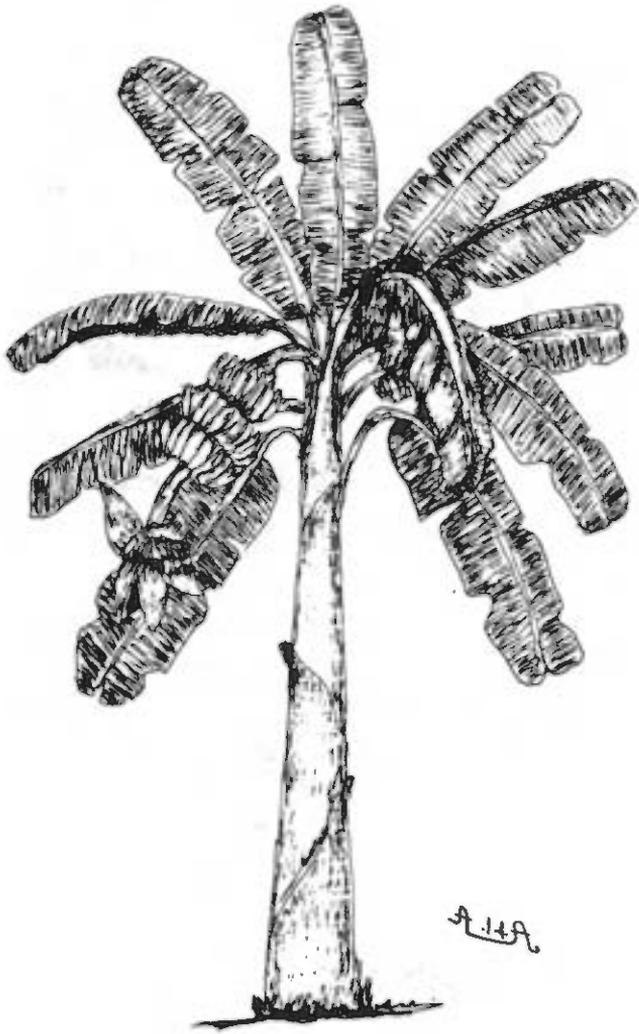
E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة

Fig. 34.1, *Ocimum basilicum*.
شكل (١-٣٤) نبات الريحان



E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة

Fig. 34.2, *Salvia splendens*.
شكل (٢-٣٤) نبات السلفيا



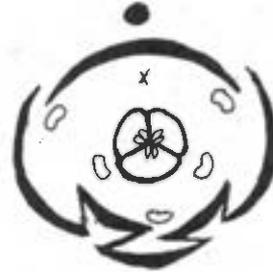
A, Tree.
النبات



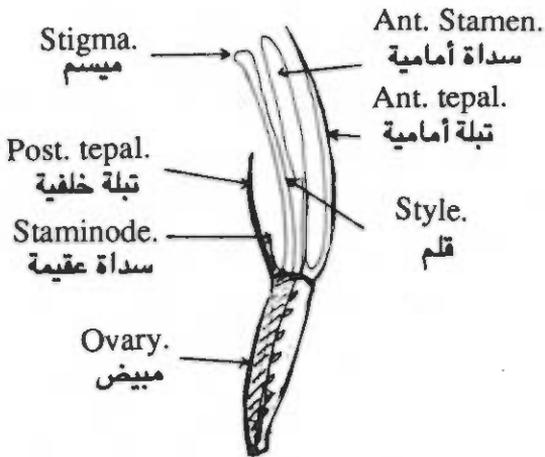
Bb, Flower.
زهرة



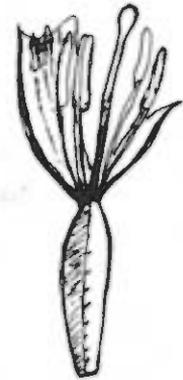
Ba, Inflorescence.
نورة



C, Floral diagram.
مسقط زهرى



E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة



D, L.S. of flower.
قطاع طولى للزهرة

Fig. 35, *Musa nana*.
شكل (٣٥) نبات الموز البلدى



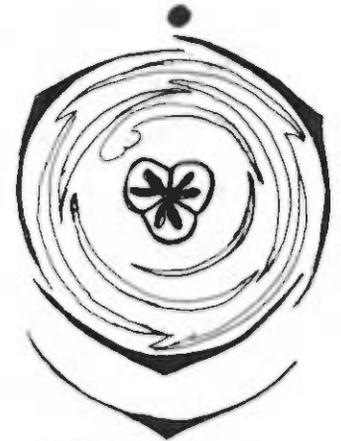
A, Plant.
النبات



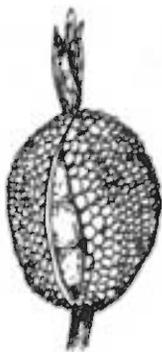
B, Flower.
الزهرة



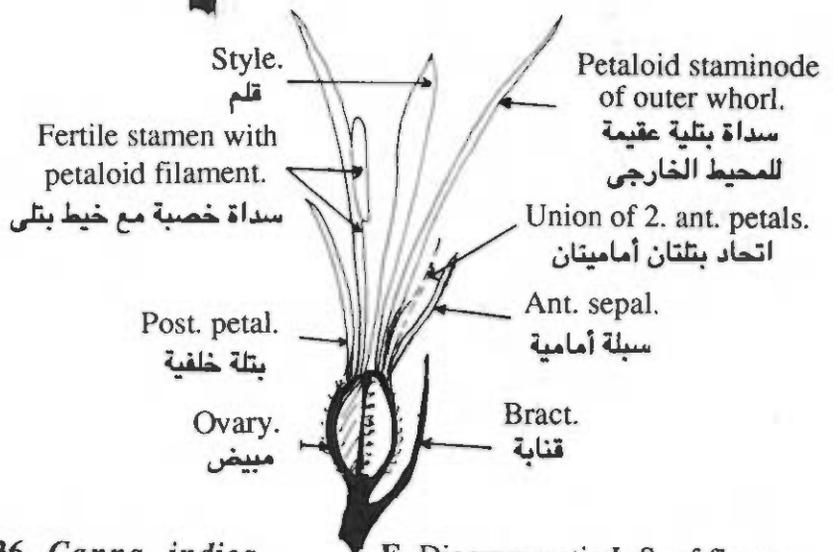
D, L.S. of flower
قطاع طولى للزهرة



C, Floral diagram.
مسقط زهرى



F, Fruit.
ثمرة

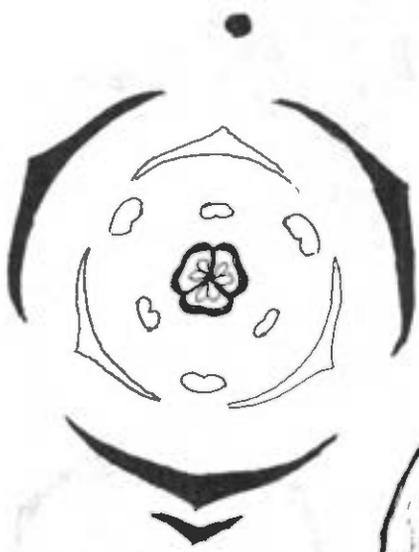


E, Diagrammatic L.S. of flower.

Fig. 36, *Canna indica*.

شكل (٣٦) نبات الكانا

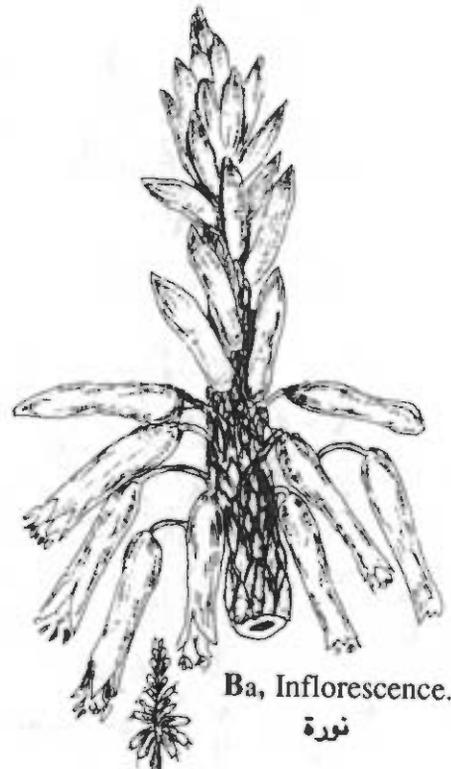
قطاع طولى تخطيطى للزهرة



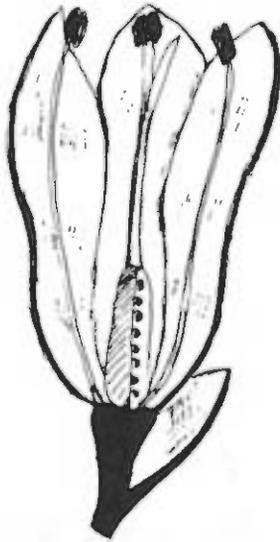
C, Floral diagram.
مسقط زهرى



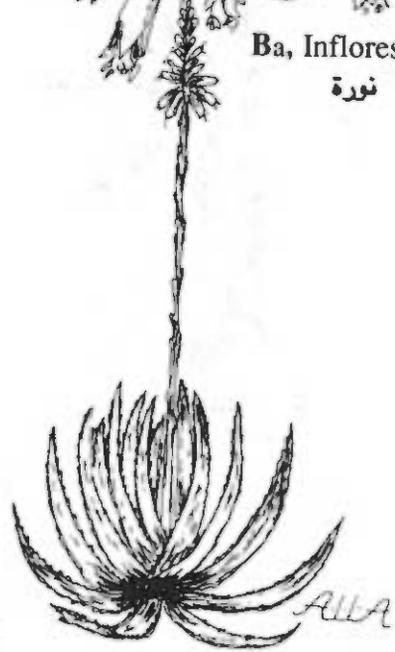
Bb, Flower.
زهرة



Ba, Inflorescence.
نورة

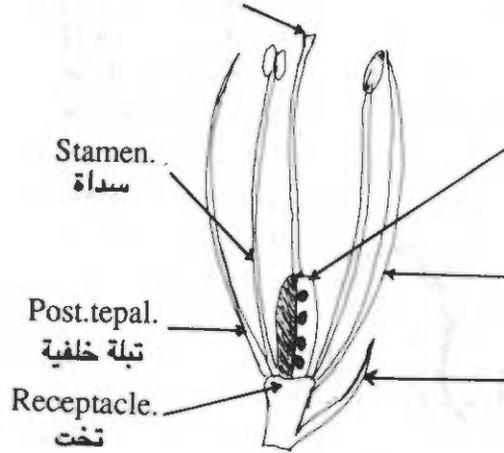


D, L.S. of flower.
قطاع طولى للزهرة



A, Plant.
نبات

Stigma.
ميسم



Stamen.
سداء

Ovary.
مبيض

Ant. tepal.
تيلة أمامية

Bract.
قنابة

Post.tepal.
تيلة خلفية

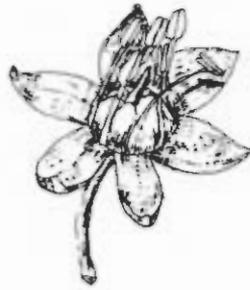
Receptacle.
تخت

E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة

Fig. 37, Aloe sp.
شكل (٣٧) نبات الصبار .



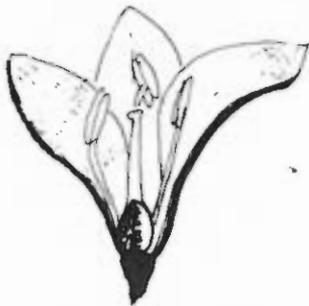
C, Floral diagram.
مسقط زهري



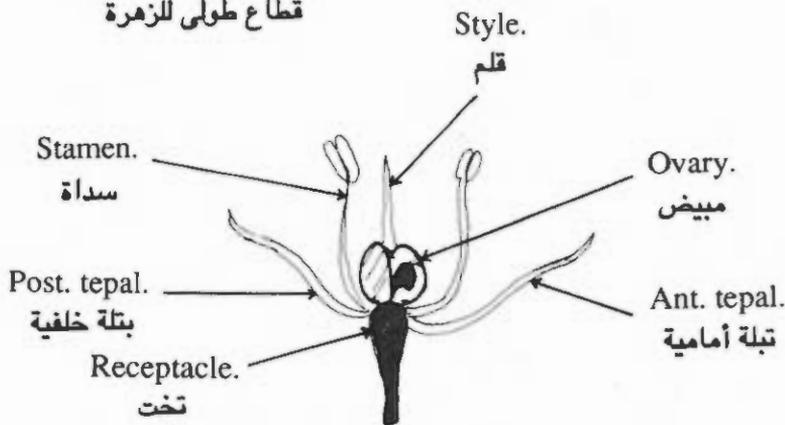
B, Flower.
زهرة



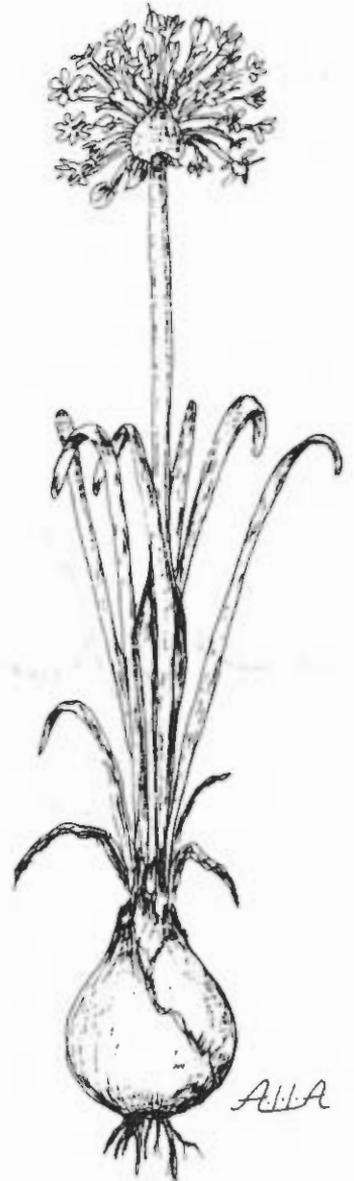
F, Fruit.
ثمرة



D, L.S. of flower.
قطاع طولى للزهرة

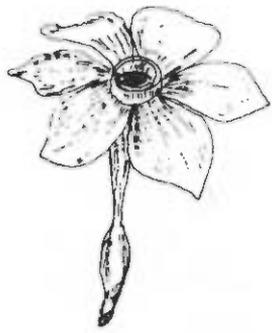


E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة

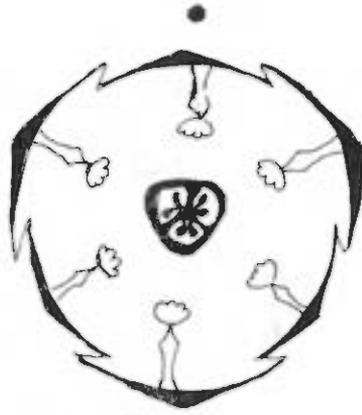


A, Plant.
النبات

Fig. 38.1, *Allium cepa*.
شكل (١-٢٨) نبات البصل



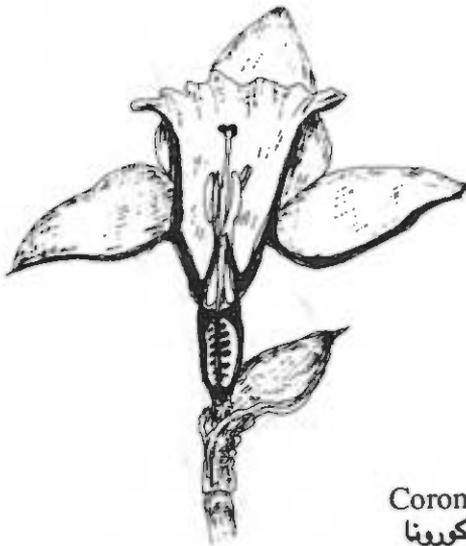
B, Flower.
زهرة



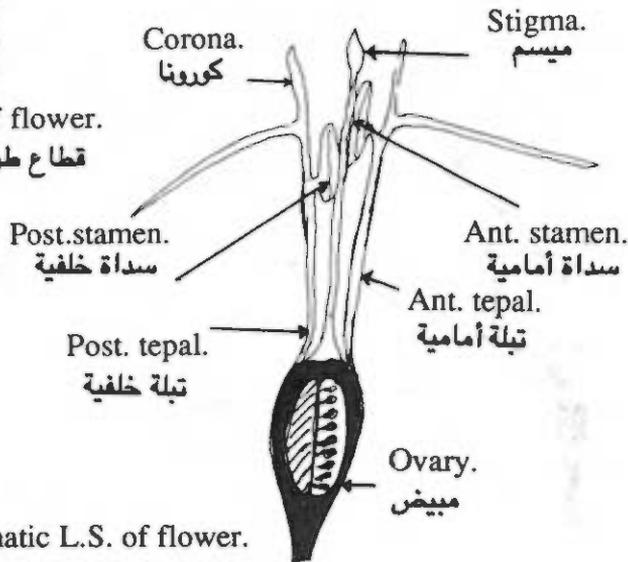
C, Floral diagram.
مسقط زهري



A, Flowering twig.
فرع مزهر

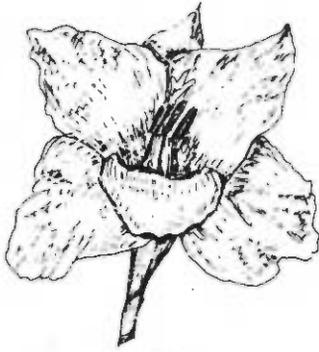


D, L.S. of flower.
قطاع طولى للزهرة

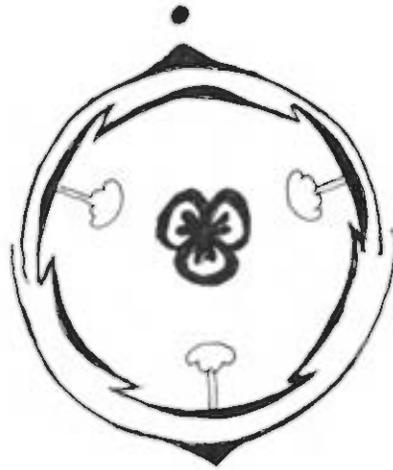


E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة

Fig. 38.2, *Narcissus tazetta*.
شكل (٢٨-٢) نبات النرجس



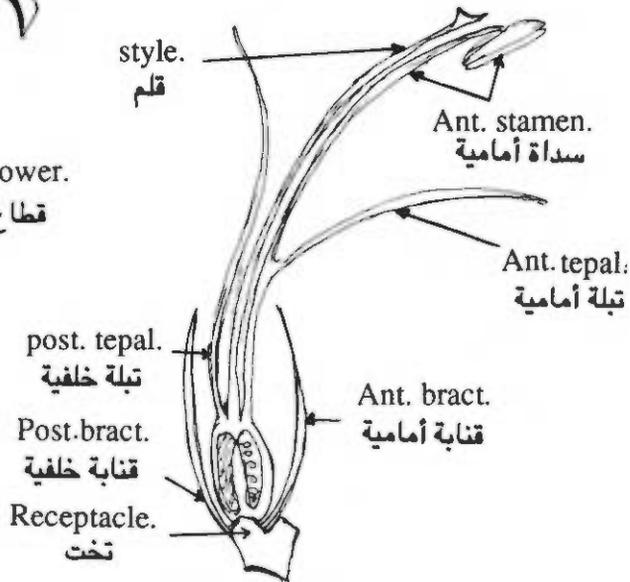
B, Flower.
زهرة



C, Floral diagram.
مسقط زهرى



D, L.S. of Flower.
قطاع طولى للزهرة

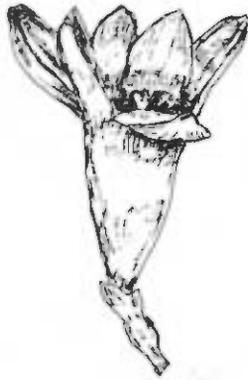


E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة

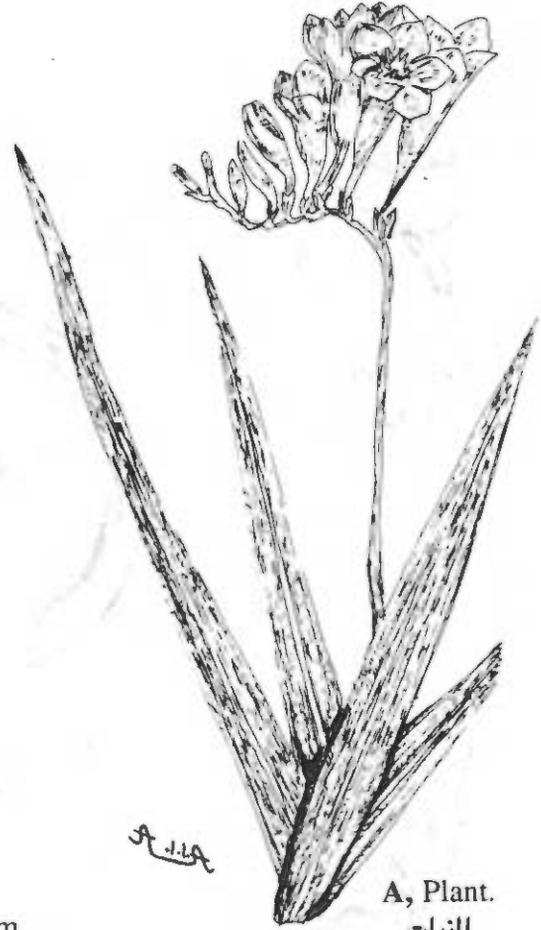


A, Flowering twig.
فرع مزهر

Fig. 39.1, *Gladiolus* sp.
شكل (١-٣٩) نبات الجلاديولس

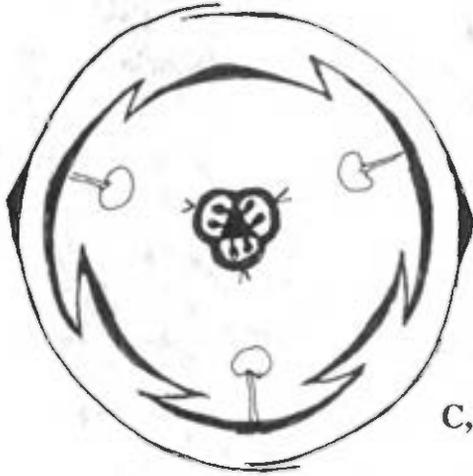


B, Flower.
زهرة

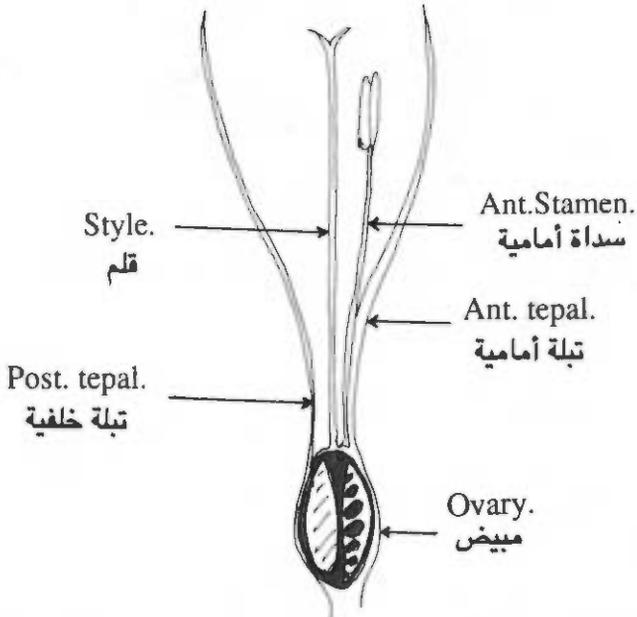


عشبة

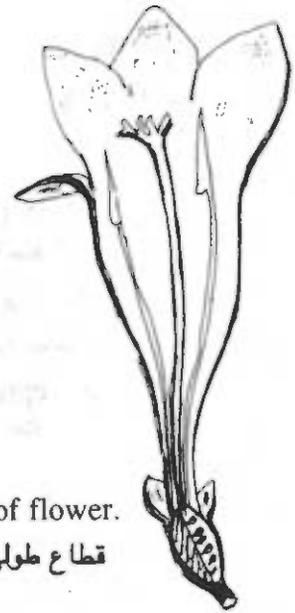
A, Plant.
النبات



C, Floral diagram.
مستط زهري



E, Diagrammatic L.S. of flower.
قطاع طولى تخطيطى للزهرة



D, L.S. of flower.
قطاع طولى للزهرة

Fig. 39.2, *Freesia* sp.
شكل (٢-٣٩) نبات الفريزيا



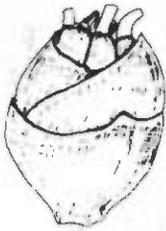
Bb, Female inflorescence.

نورة مؤنثة



Ba, Male inflorescence.

نورة مذكرة



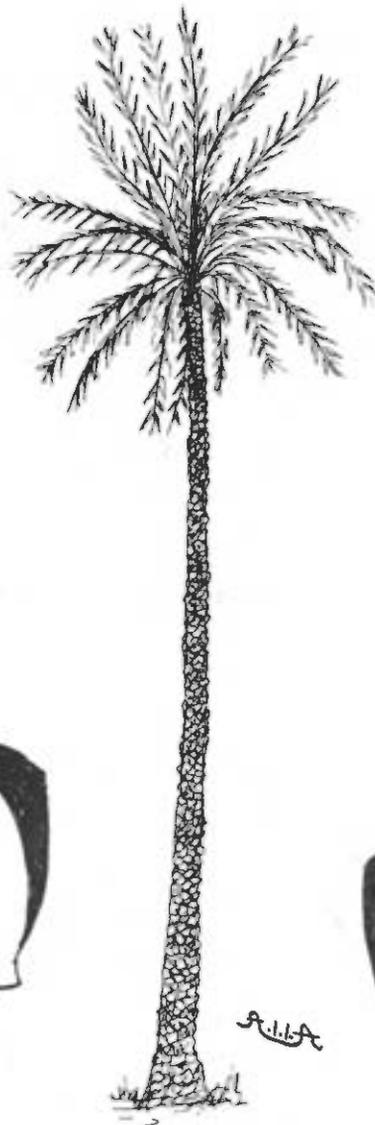
Bd, Female flower.

زهرة مؤنثة



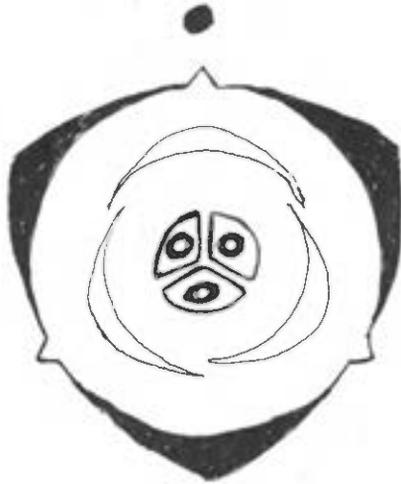
Bc, Male flower.

زهرة مذكرة



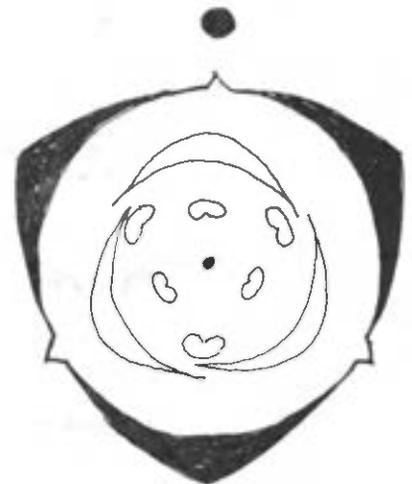
A, Tree.

الشجرة



Cb, Floral diagram of female flower.

مسقط زهري للزهرة المؤنثة



Ca, Floral diagram of male flower.

مسقط زهري للزهرة المذكرة

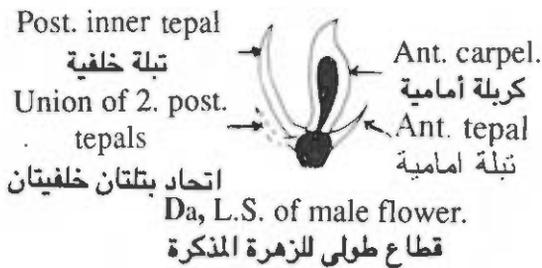
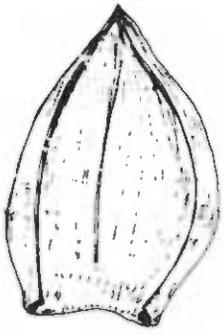
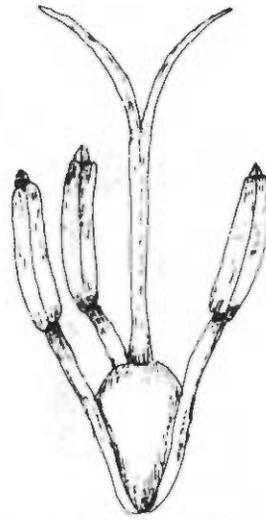


Fig. 40, *Phoenix dactylifera*.

شكل (٤٠) نخيل البلح



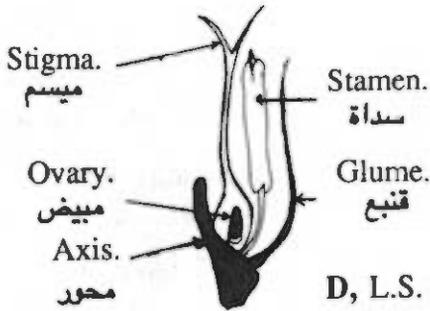
Bb, Glume.
قنبع



Ba, Flower without glume.
زهرة بدون قنبع

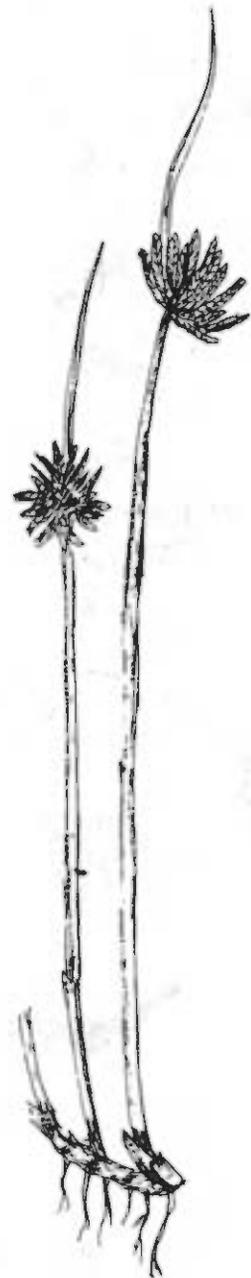


C, Floral diagram.
مسقط زهرى



D, L.S. of flower.
قطاع طولى للزهرة

بخطبات



A, Plant.
النبات

Fig. 41, *Cyperus laevigatus*.
شكل (٤١) أحد أنواع السعد

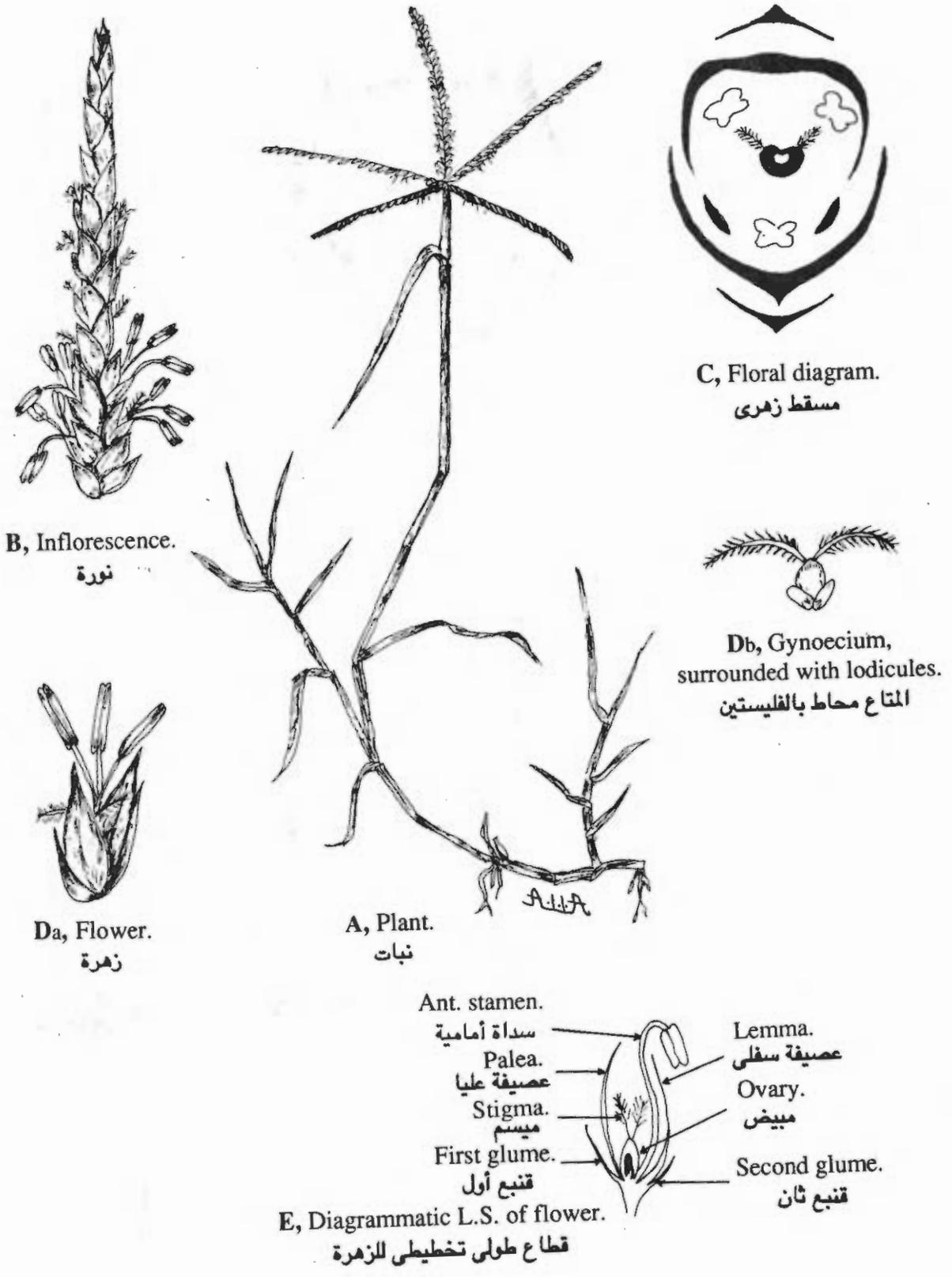


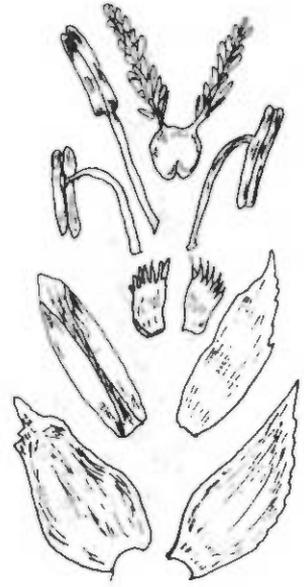
Fig. 42.1, *Cynodon dactylon*.
شكل (٤٢-١) نبات النجيل



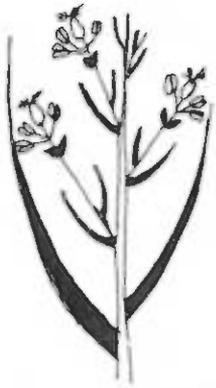
Ba, Inflorescence.
النورة (سنبله)



C, Floral diagram.
مسقط زهرى



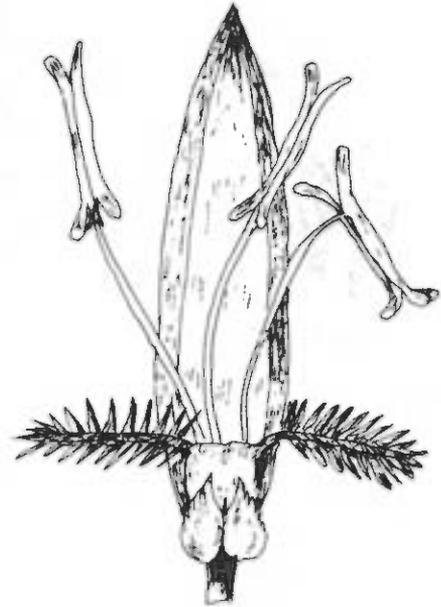
Bb, Dissected spikelet.
سنبله مشرحة



Bc, Diagrammatic spikelet.
السنبله تخطيطياً



A, Plant.
نبات



D, Flower, the palea removed.
زهرة منزوعة العصيفة العليا

Fig. 42.2, *Triticum vulgare*.
شكل (٤٢-٢) نبات القمح