## **Key to the Subfamilies of Formicidae (based on the worker caste) in the United States**

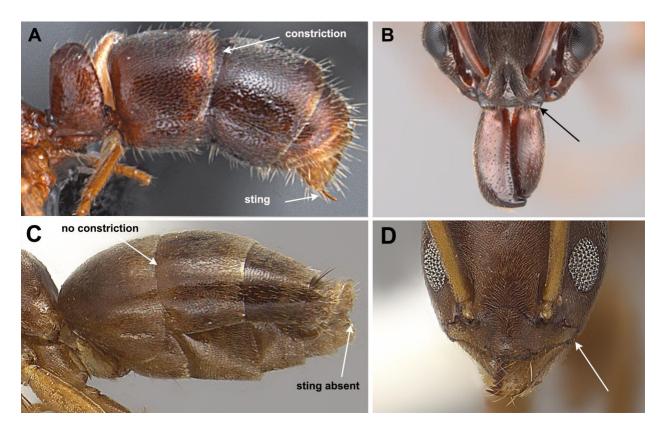
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**Figure 1. (A)** *Brachyponera chinensis*, Asian needle ant (Ponerinae), arrow pointing to petiole and (B) *Solenopsis invicta*, red imported fire ant (Myrmicinae) with petiole and postpetiole.

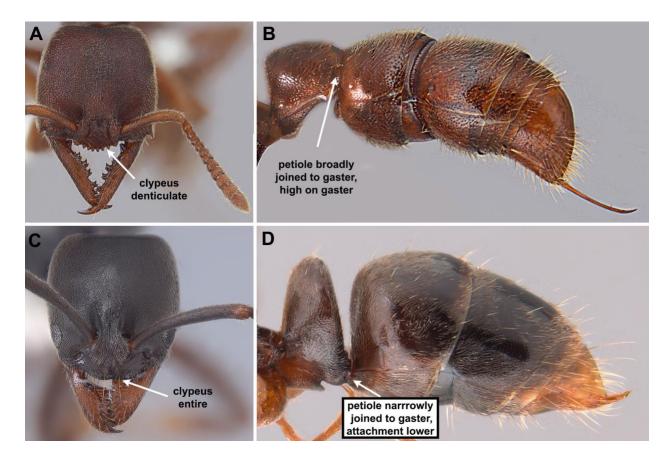
1.0 mm

1.0 mm

- Gaster without a constriction between the first and second segments (abdominal segments III and IV); sting absent or extremely reduced, never visible externally (Fig. 2C) mandibles not elongated and not inserted in middle of anterior margin of head (Fig. 2D)

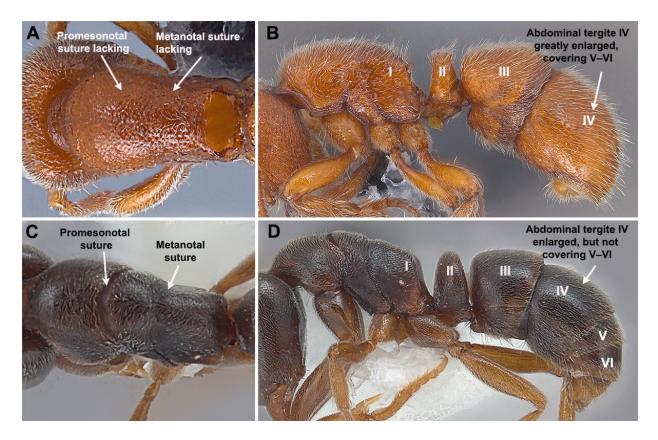


**Figure 2.** (A) Gaster of *Ponera pennsylvanicus* (Ponerinae) with top arrow pointing to constriction between gastral segments I and II and lower arrow pointed at sting, (B) full face view of *Odontomachus haematodus*, two-spined trap-jaw ant (Ponerinae), note the elongate mandibles, (C) gaster of *Tapinoma sessile*, odorous house ant (Dolichoderinae) showing the lack of a sting, and (D) full face view of *T. sessile* showing insertion points of mandibles at outer edge of clypeus.

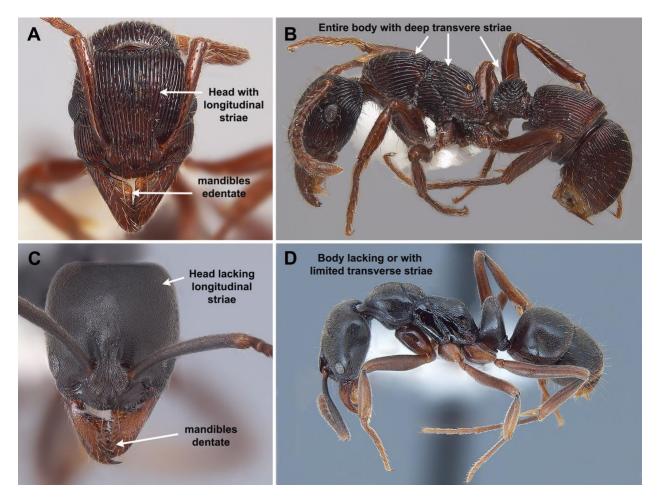


**Figure 3.** (A) Full face view of *Stigmatomma pallipes* (Amblyoponinae) showing denticulate clypeal border, (B) waist and gaster of *S. pallipes* with arrow pointing toward the broad connection between petiole and gaster, (C) full face view of *Brachyponera chinensis* (Ponerinae) with clypeal border entire (smooth), and (D) waist and gaster of *B. chinensis* showing the narrow and low attachment of petiole to the gaster.

- Promesonotal suture present; metanotal suture usually present (Fig. 4C); abdominal tergite IV not strongly enlarged, weakly arched, not covering abdominal tergites V–VI; apex of abdomen usually directed rearwards or ventrally, not anteriorly (Fig. 4D) ......5

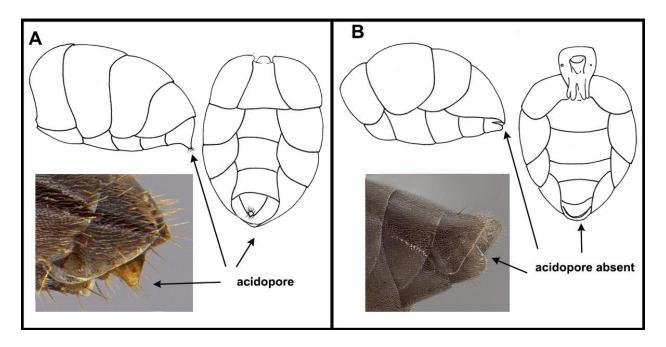


**Figure 4.** (A) Dorsal view of mesosoma of *Proceratium silaceum* (Proceratiinae) showing lack of promesonotal and metanotal sutures (B) thorax and abdomen of *P. silaceum* showing the greatly enlarged abdominal tergite IV (gastral tergite II); (C) dorsal view of mesosoma of *H. opacior* with arrows pointed toward promesonotal and metanotal sutures, and (D) thorax and abdomen of *H. opacior* with arrow pointing to abdominal tergite IV (gastral tergite II), which is enlarged but not forming the rearmost part of gaster.

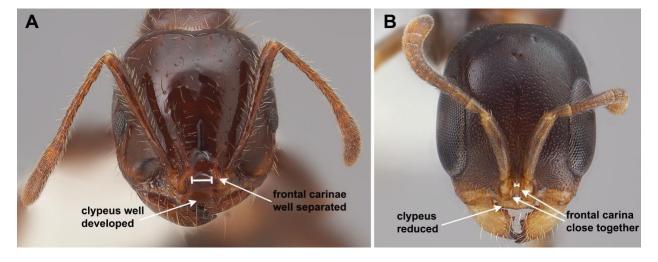


**Figure 5.** (A) Full face view of *Poneracantha triangularis* (Ectatomminae) showing longitudinal striae and edentate mandibles, (B) lateral view of *P. triangularis*, note the entire body has deep transverse striae, (C) full face view of *Brachyponera chinensis* showing the lack of sculpture on the head and the dentate mandibles, and (D) lateral view of *B. chinensis* showing the general lack of sculpture, especially deep striae, on the body.

- Apex of gaster with hypopygium lacking an acidipore (Fig. 6B) ...........Dolichoderinae



**Figure 6.** (A) Gastral views of Formicinae showing acidopore and (B) gastral views of Dolichoderinae showing the lack of acidopore.

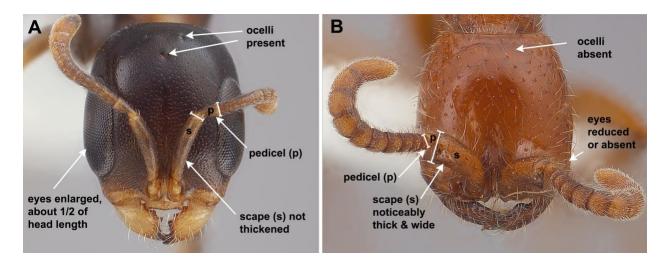


**Figure 7.** (A) Full face view of *Solenopsis invicta* X *richteri* (Myrmicinae) showing frontal carina being well separated, antennal sockets well separated and set back from anterior margin of head, and clypeus well developed and (B) full face view of *Pseudomyrmex ejectus* (Pseudomyrmicinae)

showing frontal carinae being close together, antennal sockets well separated and near anterior margin of head, and clypeus reduced.

- Eyes with a single facet or absent; ocelli usually absent; antennal scape short and noticeably widened and thickened, one-third to one half (or more) as wide as long, width of scape apically twice as wide or more than width as pedicel apically (Fig. 7B)

  Dorylinae



**Figure 8.** (A) Full face view of *Pseudomyrmex ejectus* showing enlarged eyes, ocelli, and antennal scapes (not unusually thickened), width of scape apically about the same width as pedicel apically, and (B) *Neivamyrmex carolinensis* (Dorylinae) showing the lack of eyes and ocelli, and noticeably thickened antennal scapes, width of scape apically twice as wide or more than width as pedicel apically.