

- 1b. Dorsum of mesosoma, in profile, with mesopropodeal suture distinctly impressed; mesopropodeal suture clearly marked on dorsum; propodeal spines variable in length 2
- 2a(1b). Propodeum armed with a pair of very small denticles that are not spinose; antennal scape failing to reach occipital margin by an amount less than the greatest thickness of scape *venustula*
- 2b. Propodeum armed with a pair of spines or well developed angles; antennal scape failing to reach occipital margin by an amount at least as great as the length of first funicular joint 3
- 3a(2b). Node of petiole globular, seen from above, usually broader than long; propodeal spines relatively long, usually more than $\frac{1}{2}$ length of distance between tips; anterior border of postpetiole distinctly concave when seen from above *wroughtoni*
- 3b. Node of petiole elongate, seen from above, longer than broad; propodeal spines short, length less than $\frac{1}{2}$ distance between tips; anterior border of postpetiole straight or feebly convex or even feebly concave when seen from above 4
- 4a(3b). Projections on propodeum angulate, not spinose, length about $\frac{1}{4}$ distance between tips; anterior clypeal border weakly concave; node of petiole not laterally compressed near apex. (California and Arizona) *ectopia*
- 4b. Propodeal spines relatively sharp and spinose, length up to about $\frac{1}{2}$ distance between tips; anterior clypeal border straight or slightly convex; node of petiole laterally compressed near apex. (not recorded from California or Arizona). *emeryi*

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