The new spider genus *Arctachaea* is erected for two rare species from western North America, closely allied to *Theridion*. *Arctachaea* differs from the latter in abdomen shape and in structure of the genitalia. The rarity of the two species accounts for the belatedness of their description. Dr. W. J. Gertsch of the American Museum of Natural History and Dr. R. V. Chamberlin of the University of Utah have made specimens available to me. I extend my sincere thanks for their cooperation.

*Arctachaea*, new genus

*Arctachaea* (fem.) has *Arctachaea pelyx* as type species.

Medium sized theridiid spiders. Carapace longer than wide, thoracic depression indistinct. Eyes subequal in size, anterior eye row procurred as seen from front, posterior row straight as viewed from above. Chelicerae lacking teeth. Sternum convex. First leg longest, fourth or second leg in males second in length, third shortest. Tarsal comb with few setae. Abdomen slightly longer than high with a distinct dorsal posterior hump. Colulus absent.

Epigynum a raised area. Palpus with median apophysis.

---

**EXPLANATION OF PLATE 8**

Figs. 1-2 *Arctachaea nordica* (Chamberlin and Ivie) Fig. 1. Ventral view of chelicerae and palpus. Fig. 2. Anterior view of left chelicera. Figs. 3-6. *A. pelyx* new species. Fig. 3. Left palpus, expanded (C, conductor; E, embolus; M, median apophysis; R, radix; Y, cymbium). Fig. 4. Female genitalia, dorsal view. Fig. 5. Epigynum. Fig. 6. Female. Figs. 7-11. *A. nordica* (Chamberlin and Ivie). 7. Female genitalia, dorsal view. 8. Epigynum. 9, 10. Female. 11. Left palpus. Figs. 12-13. *A. pelyx* new species. 12. Palpus (Utah). 13. Palpus (Oregon).
LEVI — ARCTACHAEA
Psyche 

104

(M in Fig. 3), radix (r), conductor (c) and a long embolus (E). The cymbium (y) is modified at its tip.

Arctachaea differs from Theridion by having a hump on the abdomen (Figs. 6, 9, 10), and in the shape and direction of the embolus. It differs from both Theridion and the closely allied Chrysson in having the tip of the male cymbium modified (Fig. 3). Arctachaea can be separated from Achaearanea which has a similar shaped abdomen in that the former has a radix in the male palpus while the latter genus does not.

**Arctachaea pelyx** new species
Plate 8, Figures 3-6, 12, 13; Map 1

*Types.* Male holotype from East Canyon, Salt Lake County, Utah, June 12, 1943 (W. Ivie) in the American Museum of Natural History.

*Description.* Carapace yellow-white with a median dusky band, narrowest posterior, enclosing eye region and continuing as a line across the clypeus; sides of carapace with a dusky line. Sternum with a black border on each side. Legs with some black spots. Abdomen (Fig. 6) yellow-white with a dusky median dorsal band bordered by white. Anterior median eyes separated by one and one-quarter diameters, one-quarter from laterals. Posterior eyes separated by one diameter. Abdomen with a tubercle (Fig. 6) that of male longer than high. Epigynum with a light swollen area illustrated by Figure 5, palpus by Figures 12, 13. Total length of female 3.2 mm. Carapace 1.02 mm. long, 0.92 mm. wide. First femur, 1.71 mm.; patella and tibia, 1.85 mm.; metatarsus, 1.58 mm.; tarsus, 0.68 mm. Second patella and tibia, 1.11 mm.; third 0.78 mm.; fourth 1.24 mm. Total length of male 2.7 mm. Carapace 1.15 mm. long, 1-10 mm., wide. First femur 2.71 mm.; patella and tibia 3.05 mm.; metatarsus 2.72 mm.; tarsus, 0.91 mm. Second patella and tibia, 1.63 mm.; third, 1.05 mm.; fourth, 1.70 mm.

Levi — Spider Genus Arctachaea


**Arctachaea nordica** (Chamberlin and Ivie)
Plate 8, Figures 1-2, 7-11; Map 1


*Description.* Carapace white, with a double median line and a dusky border. Sternum with a narrow dusky border. Legs white. Eyes on small black spots, anterior medians one and one-third diameter apart, one-half from laterals. Posterior medians separated by less than their diameter, by one from laterals. Abdomen white with a black spot.
on posterior tip (Figs. 9, 10). Epigynum with two anterior swollen areas, and a posterior median depression (Fig. 8). Palpus of male very large (Fig. 11), cymbium 0.65 mm. long, teeth of cymbium fitting against enlarged fang (bearing phlanges on each side) as illustrated by Figure 1. Total length of female from Montana 3.0 mm. Carapace, 1.12 mm. long, 0.97 mm. wide. First femur, 2.20 mm.; patella and tibia, 2.32 mm.; metatarsus, 1.95 mm.; tarsus, 0.71 mm. Second patella and tibia, 1.35 mm.; third, 0.91 mm.; fourth 1.56 mm. Total length of male from Colorado 2.7 mm. Carapace, 1.24 mm. long, 0.98 mm. wide. First femur, 2.60 mm.; patella and tibia, 2.74 mm.; metatarsus, 2.40 mm.; tarsus, 0.85 mm. Second patella and tibia, 1.72 mm.; third, 0.92 mm.; fourth, 1.62 mm.
