

EXPLANATION OF PLATE III.

- Fig. 28. Hypopygium of *Nephrotoma arctica*; ninth tergite, dorsal aspect.
 " 29. " *N. arctica*; outer pleural appendage.
 " 30. " *Tipula hewitti*; the same.
 " 31. " *T. besselsoides*; the same.
 " 32. " *T. johanseni*; ninth tergite, dorsal aspect.
 " 33. " *T. difflava*; the same.
 " 34. " *T. difflava*; lateral aspect; 9t. ninth tergite; 9 pl. ninth pleurite; 9 s. ninth sternite.
 " 35. " *Tipula arctica*; ninth tergite, dorsal aspect.
 " 36. " *T. hewitti*; the same.
 Fig. 37. Hypopygium of *T. arctica*; inner pleural appendage.
 " 38. " *T. subpolaris*; ninth tergite, dorsal aspect.
 " 39. " *T. besselsoides*; the same.
 " 40. Ovipositor of *T. arctica*; female sternal valves.
 " 41. Hypopygium of *T. subarctica*; ninth tergite, dorsal aspect.
 " 42. " *T. besselsoides*; inner pleural appendage.
 " 43. Ovipositor of *T. arctica*; dorsal aspect.

EXPLANATION OF PLATE IV.

- Fig. 44. Larva of *Pacilostola*, supposition; spiracular disk.
 " 45. " *Tipula arctica*; the same.
 " 46. " *Stygeropsis*, supposition; the same.
 " 47. " *Tipuline* No. 2; dorsal aspect of entire larva.
 " 48. " *Tipuline* No. 2; spiracular disk.
 " 49. " *Tipuline* No. 3; the same.

EXPLANATION OF PLATE V.

- Fig. 50. Pupa of *Tipula arctica*; male, lateral aspect.
 " 51. " *T. arctica*; female, dorsal aspect.
 " 52. Larva of *Tipula arctica*; labrum; dorsal aspect.
 " 53. " *T. arctica*; mentum; dorsal aspect.
 " 54. " *Poecilostola*, sup.; outer lobe of maxilla.
 " 55. " *Poecilostola*, sup.; mandible.
 " 56. " *Tipula arctica*; chaetotaxy of third abdominal tergite; dorsal aspect.
 " 57. " *T. arctica*; the same, third abdominal sternite; ventral.
 " 58. " *Stygeropsis*, sup.; the same, third abdominal tergite; dorsal.
 " 59. " *Stygeropsis*, sup.; the same, third abdominal sternite; ventral.
 " 60. " *Tipuline* No. 1; the same, third tergite; dorsal.
 " 61. " *Tipuline* No. 1; the same, third sternite; ventral.
 " 62. " *Tipuline* No. 2; the same, third tergite; dorsal.
 " 63. " *Tipuline* No. 2; the same, third sternite; ventral.
 " 64. " *Tipuline* No. 3; the same, third tergite; dorsal.
 " 65. " *Tipuline* No. 3; the same, third sternite; ventral.

EXPLANATION OF PLATE VI.

- Figs. 1, 2. Female of *Tipula arctica* Curtis (Photos. by Geo. H. Wilkins)