

interrupted their repairs to shampoo and kiss the interlopers and again they tugged them by a leg or an antenna, sometimes in one direction, sometimes in another. And again I was forced to conclude that the *Leptothorax* workers wished to dissuade their big hosts from trespassing on their property. At any rate, the *Myrmicas* changed their plans and retreated to another part of the nest, just as the other parties had done on former occasions. The *Leptothorax* then continued their repairs. By 6 P.M. the walls had been rebuilt and the cell had the appearance of Fig. 7. The original entrance, *r*, had been much narrowed so as to exclude all but the slender-bodied inhabitants of the chamber.

At 7 o'clock on the following morning (August 28) the *Leptothorax* nest was found in *statu quo*, except that the queen had laid three more eggs during the night. By noon, however, the *Myrmicas* had again broken into the cell, so that at 4.30 P.M. the wall was torn down in several places. Nevertheless, the ever alert guest ants had piled up the earth so that the *Myrmicas* could scarcely squeeze between it and the glass roof-pane. The inroads of the *Myrmicas* had been so extensive, however, that even as late as 7 P.M. the nest presented the appearance of Fig. 8.

By 7 A.M. on the following day (August 29) the nest had been almost entirely rebuilt, as shown in Fig. 9. The *Leptothorax* must have labored during a large portion of the night. They had remodeled the nest, giving it a circular form, whilst apparently retaining the old opening at *r*. Besides this opening they had two others at *nn*, which were underground passages. The ants could be seen diving into these and anon reappearing within the circular chamber, the bottom of which had been sunk still deeper in the soil. The neat little nest now contained ten eggs. From day to day the *Myrmicas* had been widening their galleries, as is readily seen by comparison of Figs. 4 to 9, so that only small pillars of earth remained to support the roof-pane around the *Leptothorax* cell.

On succeeding days essentially the same conditions as those above described were repeated with slight differences in detail. For the sake of completing the history of the double nest, the