observations extending from August 30 to September 4 are condensed in the following notes:

August 30. The round cell, which remained undisturbed all day yesterday, was still intact at 8 o'clock this morning. By noon, however, the Myrmicas had torn down its wall in several places, and three of them were found in the cell, submitting to a vigorous shampoo. By 8 o'clock in the evening the circular nest had been rebuilt. The opening at r had been closed and a new one opened at m (upper left-hand corner of cell in Fig. 9).

August 31. Almost an exact repetition of yesterday's performance.

September 1. This morning the reconstructed Leptothorax cell is smaller. Its upper entrance, m, and the two subterranean entrances, n, have not been changed. The ants have sunk the pupæ and eggs to a greater depth in the earthen floor of the nest, so that they are almost in contact with the board. The nest was not molested by the Myrmicas during the day.

September 2. The cell this morning has further decreased in size but is still intact. Its cavity is not more than 7 mm. in diameter, so that the Leptothorax family is much crowded. The two subterranean entrances at nn are still in use but the upper entrance has been shifted to m (lower left-hand corner of cell in Fig. 9). The Myrmicas still leave the cell unmolested.

September 3. To-day, too, the Leptothorax were left in peaceful possession of their cell. Many of them went out into the galleries from time to time to shampoo the Myrmicas and solicit food, which they then distributed to their queen and to the few workers remaining at home. During the day the upper entrance at m was closed so that the wall of the nest was everywhere in close contact with the roof-pane. The ants still entered and left the chamber through the two underground entrances at n n.

September 4. At 8 a.m. the Leptothorax nest was unchanged, but by noon its circular walls had grown perceptibly thinner, as the Myrmica workers had again taken to removing the earth from the outer surfaces. The nest was now shaped like a volcano with sloping sides and the guest ants inhabiting the crater. By 5 p.m. the Myrmicas had made two breaches in the walls. The nest remained in this condition throughout the evening.