

in the Garden of the Gods near Manitou, Colo. (Fig. 16). The nests, which were found on the tops of stony ridges, are described in great detail. The large circular entrance 2-2.5 cm. in diameter is in the center of a cone-shaped crater of pebbles 8-25 cm. in diameter at the base and 5-8 cm. high (Figs. 18 to 20). The entrance opens into a vertical or oblique gallery which at a depth of 9-15 cm. breaks up into several smaller galleries. These usually extend to one side of the entrance gallery. At a depth of 20-35 cm. the smaller galleries lead into chambers with smooth, flattened floors and



Fig. 20. *Myrmecocystus horti-deorum* nest, with two craters. Red Rock Cañon, Colorado. About $\frac{1}{8}$ natural size.

rough, vaulted ceilings. These chambers vary from 12-15 cm. in length and 7-10 cm. in width, and may be 4 cm. high in the middle. McCook has described some very large formicaries, the galleries of one of which covered an area of more than 2 sq. m. and reached a depth in the soil of more than a meter. In the chambers the repletes hang, side by side, by means of their claws from the vaulting which is evidently left rough as an adaptation to this peculiar habit (Fig. 21). These individuals are capable of more movement than has usually been supposed, but if they fall from the ceiling they are unable to regain their pendent position without assistance.