of honey, and are cemented together with dark wax, in which the original breeding cells are discovered.
The rose-leaf cutter Bee has been long the subject of particular interest, from the extraordinary skill with which ske fabricates her nest. After selecting a fitting cavity in the interstices of walls, dead wood, or making for herself a cylindrical hole in indurated earth, about half a foot deep, she proceeds to line the galiery with the leaves of the rose-tree in a most ingenious manner, without using any adhesive matter whatever, depending upon the elasticty of each leaf to preserveit in its pos.tion. Every person must have observed those curious segments which are often cut from the leaves of the garden rose; and we, more than once, have had some difficulty in ovarcoming the scepticism of our friends, as to their originwhom ocular proof alone was capable of convincing. We have repeatedly watched the process, which may be witnessed any hour of a summer day, and could not sufficiently admire both the rapid manner in which, as with a pair of scissors, the excision was effected, and the neatness and mathematical accuracy of the curve, by which the section was separated from the body of the ieaf. This the bee carries be$t$ ween her legs to some convenient spot, and of such materials a succession of cells is con-structed-the convex portion of one fitting into the mouth of the other, like a number of thimbles, until the gallery is filled up. In each cell is deposited a single egg, with a portion of honey and polen; the circular piece, which encloses the chamber, being as just and well defined as though it had been marked out wath a pair of compasses. The manner in which the various fragments are arranged throughout, suggests a knowledge of the most subtile principles of mechanical art. In a somewhat similar mode the poppy bee lines her nest with a splendid tapestry, furnished from the scarlet petals of the flowers of the wild poppy, presenting a most brilliant appearance.
In the foregoing instances, with the exception of the carder bee, the mothers being of solitary habits, leave their eggs to be develuped in the progress of time, after providing subsistence for the wants of the young grubs. We now come to insectsliving in social intercourse, and guided in unity of purpose and the equal distribution crlabour, by as strict and anxious economy as the internal arrangements of a rational community. Here we remark the must indefatigable eare and devotion to the rearing of the young, which ccases not during those
progressive stages through which their perfea organization is alene acquired. We need no. dweli upon the history of the hive bee, so cetlbrated, from the earliest times, for affording : valuable luxury to man. It has furnishea, theme for the song of the poet and the pen if the phulosopher; the strong attachment shom: to its offspring, and the abundant stores a nourishment which is appropriated to their uss are too well known to need repetition here.
The social wasp, though rat contributing in. rectly to our nccessities, may still be lookei upon as a rual of the bee, in the beauty ar: regularity of its architecture. The material e which its hexagonal cells are formed, is hight interesting. As this insect is by nature a pa per maker, fabreating it of the grey fibrese: old wood, worked into a pulp with its mandbles, and moistened with fluid: therefore hat this little animal been in quiet possession of secret, which, for many ages, was unknownt: mankind-and employed in manufacturing pa per for its own uses, from the commencemeni of the world; availing itself of an art whic! it required centuries of human ingenuity to dis cover. The wasp does not secrete honey; the cells being appropriated to larvac. Their nest are of several forms, and situated in differem localities; some, as the common wasp, burrox in the earth an excavation suitable io building. or take possession of the deserted nest of the field mouse, or other small animals, in whick to establish a colony, which is the labour of single female, as her associates, for the most part, perish durin, the previous winter. The first care of the hitle architect is to line th: cavity with numerous layers of strong paper. which are not in juxtaposition, but separated by interstices, thereby rendering the envelop: of her intended city thicker than it otherwiss would be. After this is completed, she com: mences the rudiments of the first range of cells working from the top downwards until it: finished, when a second floor, or hanging tipt race, is constructed, which is suspended from the first by minute pillars, and being circulat. every space is occupied with numerous hexegonal cells, made of paper, a before mentioned After some tume thus employed, the industrion: insect desists partly from her toil, and seeki food for the young brood which soon emerge from the eggs deposited by the mother in every cell, while the process of building goes on. Ia a short time these grubs become perfect wasps and assist their common parent in the general economy of the nest-manufacturing new platforms of cells, untul the whole interesting edr.

