

ing sap, the tiny flowers of the fields perfume the air. But their expansion lasts only for a moment. Barely open at noon, by three o'clock they fold themselves up veil again, and shivering their stamens. In this brief interval of gentle heat you may see a little wan-looking creature, completely clad but very chilly, which also ventures to unfurl its wings. The bee quits its city, in the knowledge that the manua is ready for it and its little ones.

It is not a less important duty for the bee to rise at an early hour and be present at the moment when the flower, which has slumbered under awakes. But in

the penetrating dew, awakes. But in the noonday heat will she remain inactive? The burning sun and the dry air have withered up the blossoms of the plain. But those of the woods, sheltered by the fresh cool shades, present their cups brimming over; those of the mur-murous brooks, and silent and deep marshes, are then instinct with vitality. The forget-me-not dreams, and weeps tiny tears of nectar.

Let us observe the bees in their home. They share with the wasps, the ants, and all the sociable instincts the disinterested life of aunts and sisters who devote themselves entirely to an adoptive ma-

ternity.

But from these analogous peoples the bee differs in the necessity it is under, of creating a national idol, the love of which

creating a national idol, the love of which impels it to work.

Then, at bottom, the government will be democratic. No one commands. The city is not built or organized by the entire people, but by a special class, a kind of guild or corporation. While the mob of bees seeks the common nourishment abroad certain much larger bees the abroad, certain much larger bees, the wax-makers, elaborate the wax, prepare it, shape it, and skilfully make use of it. Like the mediaeval freemasons, this respectable corporation of architects toils and builds on the principles of a profound geometry. Like those of the old days, they are the masters of the living stone. But our worthy bees are far more descrying of the title! The materials which they employ they have made, have elaborated by their vital action, and vivined with their internal juices.

Neither the honey nor the wax is a vegetable substance. Those little light bees which go in quest of the essence of the flowers bring it back already transformed and enriched. Sweet and pure it passes from their mouth to the mouth of their eldest sisters. Those, the grave war-makers, elaborate it in their turn,

and communicate to it
their own peculiar lifesolidity. Wise and sedentary, they work up the
liquid into a sedentary
honey, a honey of the second quality,

a kind of reflected honey.

In the solid mass, well placed and skilfully squared, where such numbers have harmoniously deposited their contribution of wax, an excavation must now be made, and some degree of form attained. A single bee again detaches herself from the crowd and mith the herself from the crowd, and with her horny tongue, teeth, and paws, she contrives to hollow out the solid matter like a reversed vault When fatigued she retires and others take on the work of modelling. In couples they shape off and thin the walls. The only point to be remembered is a skifful management of their thickness. But how do they appreciate this? Who or what warns them the moment a stroke too much would break an opening in the partition? They never take the trouble to make a tour of their work and examine it from the other side. Their eyes are useless to them; they judge of everything by their antennae, which are their plumb-line and compass. They feel about, and by an infinitely delicate touch, recognize the elasticity of the wax, per-haps by the sound it renders, and deter-



AN ENEMY-THE BEE MOTH.

mine whether it is safe to excavate it, or whether they must stop short and not push their mining operations further.

The building, as everybody knows, is destined to serve two ends. The cells are generally used in summer as cradles, are generally used in summer as cradies, in winter as magazines of pollen and honey—a granary of abundance for the republic. Each vessel is closed and sealed with a waxen lid, a cloture religiously respected by all the people, who take for their subsistence only a single comb—and when that comb is finished. pass on to another, but always with extreme reserve and sobriety.

The combs are pierced in the centre by corridors or little tunnels which do away with the necessity of traversing two sides. Economists in everything, the bees are

specially economical of time.

Secondly, the form of the cells is by no means identical. They prefer the hexagon—the form which is best adapted to secure the greatest possible number of cells in the smallest area. But they do

not slavishly bind themselves to this not slavishly bind themselves to this form. The first comb which they attach to the frame-work would cling to it very insecurely, and only by its projecting edges, if it were composed of six-sided cells. They therefore make it with five sides only, and fashion it of pentagonal cells with broad bases, which attach themselves solidly to the wood on a continuous line. The whole is agglutinated and scaled, not with wax, but with their your which as it dries becomes hard as gum, which, as it dries, becomes hard as

No creature is more richly endowed with implements, or more obviously in-tended for an industrial specialty than the bec. Each organ reads her its les-son, and informs her what she has to do Lighted by five eyes and guided by a couple of antennae, she carries in front, projecting beyond her mouth, an unique and marvellous instrument of tasto—the proboscis, or long external tongue—which is of peculiar delicacy, and partit hairy, that it may the more readily absorb and imbibo. Protected, when at rest, by a beautiful scaly-sheath, the proboscis puts forth its fine point to touch a

bosciz puts forth its fine point to touch a liquid; and this point wetted, draws it back into its mouth, where lies the internal tongue, a subtle judge of sansation, and the final authority.

To this delicate apparatus, add some coarser attributes which indicate their own uses; hairs on every side to catch up the dust of the flowers, brushes on the thighs to sweep together the scattered harvest, and panniers to compress it into peliets of many colours. All these centile reaper.

the reaper.

THE TWO BULERS.

"The Bible is so strict and oldfashioned!" said a young man to a gray-haired friend who was advising hita to study God's word if he would learn how to live. "There are plenty of books written nowadays that are moral enough in their teaching, and don't bind me down as the Bible does." The old merchant turned to his deak

and took down a couple of rulers, one of which was slightly bent. With each of these he ruled a line, and silently handed the ruled paper to his companion
"Well," said the lad, "what do you

mean ?"

One line is straight and true, is it not? Now, my young friend, when you mark your path in life do not use a crooked ruler"

William Muldoon, the athletic trainer. who a few years ago retired the uncon-quered champion wrestler of the world, says, in a recent interview in Success, in answer to a question about the food value of alcohol: "I have no faith in it. Noth-ing else destroys the muscular tissues as readily as alcohol, and patients while in my care must give up alcoholic beverages absolutely. I owe my strength to abstemiousness." Alcohol is not "angels" food." Its "value" lies in the fact that it is the "devil's food."

