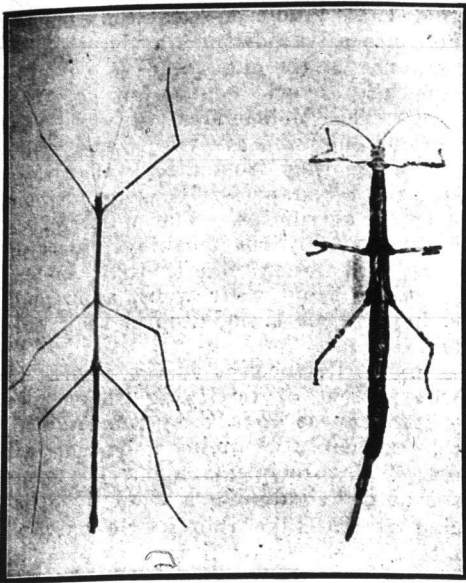


posture he would inevitably meet a swift death.

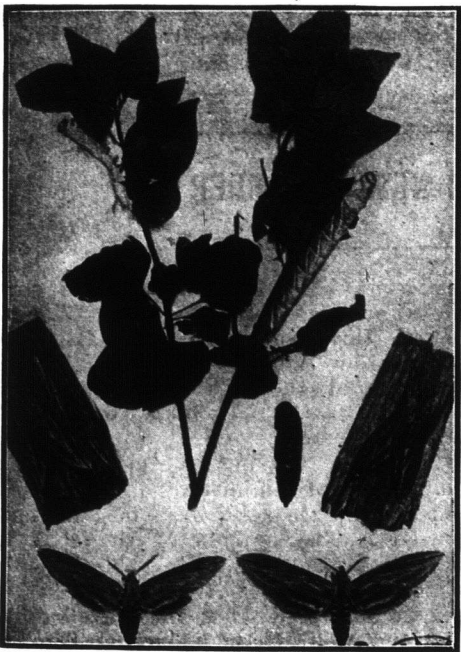
A butterfly on the contrary rests usually with his wings uplifted and pressed together. Otherwise the gaudy upper surface would be as conspicuous as the black ink on this paper—a signal



Walking sticks, often pruned in mistake.

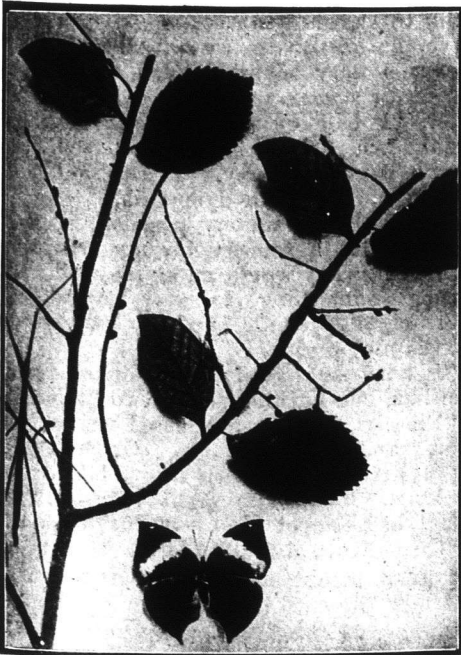
for attack by relentless and voracious foes. In order to hide himself, the butterfly has, therefore, lavished all the resources of his imitative art on the under surface of his wings.

By far the most wonderful instance of this kind is afforded by the East In-



Hawk moth-caterpillar—same color as leaves
Moth, color of bark.

dian Kallima butterfly, the blue upper surface of which is richly and ostentatiously adorned with a stripe of orange, but the upper surface of which bears a truly staggering likeness to a leaf when the wings are drawn together. Here we



Indian Kallima. Four species shown.

have an insect that apes not merely the approximate shape and color of a dead leaf, but also the midrib with the delicate veining, the sharp point and the short stem common to many tropical leaves. It might be supposed that this

imitation of an ordinary object is sufficiently minute to protect the Kallima from its enemies.

Self preservation apparently demands touches even more exquisite, for the resemblance has been so craftily carried out that not merely is a dead leaf simulated, but in the lighter colored varieties, or dead, shrivelled leaf flecked with parasitic growths, stained and spotted to give the appearance of holes eaten by caterpillars.

Is it any wonder that a keen-eyed and trained naturalist has often been unable to find the Kallima when it might refuge from his net in a bush of dead leaves. How absolutely impenetrable is this disguise may be gathered from the

circumstance that Kallima butterflies so successfully elude their enemies, that they are among the most common in India and Ceylon. Hardly two specimens are exactly alike—the colors vary within as wide limits as the hues of decaying leaves.

Additional examples of the incredible fidelity with which insects have adapted themselves to their environment could be given almost without number.

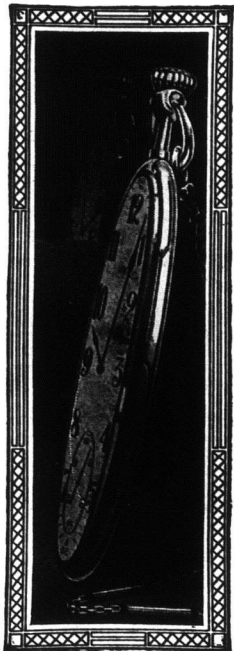
There are "walking sticks" that conform perfectly to a spray of twigs with all the polished nodes, and must actually be touched before one can be persuaded that they are living things; spiders that deceive their prey with piti-

ful ease by their fatal resemblance to a knot on a tree branch.

Immunity from attack would be only temporarily attained if insects were not able to adapt themselves to those chromatic changes in their surroundings caused by the seasons. Verdant leaves are, after all, an accompaniment of Spring and Summer alone, and a creature dressed in green would be infallibly betrayed by its glaring contrast with the russet hues of Fall. But Nature's disguise conceals its wearers even in these due straits.

The caterpillar of the Privete Hawk moth, has the wonderful power of modifying its coloration to suit its environment. When complete growth has been

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