The cerebrum when examined is found to consist of a somewhat pulpy, more or less elastic substance of very unstable constitution ; that is, its molecules very readily, and on slight provocation, assume different positions with reference to each other, capable of forming different groupings. Hence on death it is the first to succumb to the ravages of decay, which, in chemical language, is equivalent to rearrangementrecombination. Throughout this substance of the cerebrum great numbers of fine white threads are found to ramify. These threads are collected at the base of the brain into bands which unite the two hemispheres of the cerebrum, and form lines of communication between the ganglia and the various parts of the brain substance. In addition to these threads, we have distributed through the substance of the brain vast numbers of bioplasts, which are especially numerous along the ends of the threads and in the substance surrounding these threads. It is the function of these bioplasts to convert the food supplied by the blood vessels, which anastomose throughout the brain substance, into tissue, formed material-into nerve fibre, or brain substance.

Suppose now that a certain motion, representative of an external object, has arrived at the ganglia, and I pay attention. What takes place before I perceive? Immediately a stimulus is sent along some nerve track already existing, directing the bioplasts in some part of the brain either to build a group of brain molecules or to differentiate what already exists into groups capable of taking up-copyingthe motion which has arrived from the exterior. More than this: in building these groups, the bioplasts at the same time construct a nerve track joining the group of molecules with the main track. The stimulus I send along, directing the function of the bioplasts to perform the work indicated, is due to an exertion of the will, and to pay attention in the sense here indicated simply means to exert the will, by which the bioplasts are directed in their function. When this has been done, when the motion has been transferred to the brain along the highway already existing, and that part of it which has