with every pulsation. Measurements of the *elevation* movement alone, are, however, according to Dr. Holden, quite fallacious. He believes that to get a correct idea of the real changes taking place in the blood-current in circulation, it is necessary to guage the *expansion* movement of the vessel. In accordance with this view the author has contrived a spring, which, possessing a hollowed portion in its under surface, thus embraces the artery, and in consequence measures by its attached levers the amount of *displacement* which takes place at every cardiac stroke. Other minor differences there are between the two instruments, but only in matters of detail which do not effect the principle of their action. From this subject we pass to the consideration of the translation of tracings, wherein are explained the terms employed in describing sphygmographic writings, and the significance of each portion of the hieroglyphic. Every cycle which embraces a complete pulsation is divided into four *events* as they are termed, and it is upon the relative proportion, shape and other characteristics of these that depends the interpretation to be placed upon any given specimen. This occupies three or four chapters, aud with one upon the compressibility or tension of the arteries, and the importance of ascertaining the exact character and extent of this, completes the first part. In part II, is then taken up the consideration of the normal character of tracings, and the deviations produced in them by disease. Great pains is taken by the author in the endeavor to establish the variations consistent with health, and the abnormalities produced by minor disturbing causes. Illustrative cases are then shown from patients suffering from a great variety of diseases. such as Heart-diseases, Delirium Tremens, Epilepsy, Asthma, Phthisis, &c.

Part III. is occupied by a series of drawings illustrative of the various effects produced npon the pulse by medicines, especially those of the narcotic type, and the whole is completed by several conclusions based upon the numerous observations made.