Books and Bookmakers.

INSTANTANEOUS photography, especially that branch of it known as chronophotography, has already won for itself a recognized position among the methods of scientific research, and in the near future it is probable that it will be even more generally appreciated. Marey and Muybridge are regarded as the two pioneers of the method; the works of the latter, written in English and published in America, have been long within the reach of all who can read the English language; on the other hand the works of Marey have been the most inaccessible to those who are unfamiliar with French. For that reason Eric Pritchard, M.A., obtained permission to translate Professor E. J. Marey's work, "Le Mouvement." This is one of the most recent and important publications of the eminent French physicist and physiologist, and it is claimed to be the most comprehensive and hitherto published of the results and possibilities of instantaneous photography. The book, "Movement," which has been issued in the International Scientific, is not only full of interest for both specialist and general reader, but is replete with suggestiveness of new lines of research.

Professor Marey, in his preface, remarks that the graphic methods, of which various developments has been of immense service to almost every branch of science, and

The Photographic Gun.
[*Reproduced from "Movement."*]

consequently many improvements have of late been effected. Laborious statistics have been replaced by diagrams in which the variations of a curve express in a most striking manner the several phases of a patiently observed phenomenon; and, further, a recording apparatus, which works automatically, can trace the curve of a physical or physiological event, which, by reason of its slowness, its feebleness or its rapidity, is otherwise inaccessible to observation. Sometimes, however, a curve which represents the phases of a phenomenon is found so misleading that another and more serviceable method—namely: that of chronophotography—has been invented. Professor Marey has been afforded unique opportunities for carrying on his investigations by the physiological station endowed by the French Republic and by the city of Paris. In comparing the locomotion of various species of animals he has studied each under the natural conditions essential to it—the fish in fresh water or marine aquariums; insects in open air; and man, quadrupeds and birds in wide spaces in which their movements are unfettered. The development of the new methods of analyzing movement could never have proceeded within the confined space of a physiological laboratory. Marey demonstrates that photography will permit the exact measurement of time intervals, and that photography can also reproduce the trajectory of a body moving in space, and it follows that if the two motions of time and space can be combined in photographic images, a chronophotographic method has been instituted which explains all the factors

Three Series of Images to Demonstrate the Corresponding Position of the Bird, When Taken From Three Different Points of Views.
[*Reproduced from "Movement."*]

in a movement which it is the desire to understand. It also affords a very simple experimental solution of certain very complicated mechanical problems. The whole question of "mechanics" is founded on a knowledge of the movement which is imparted to a mass, for from the movement the force which produces it can be measured. The book contains over 200 illustrations, and among the subjects outlined are: Human movements from the point of view of kinetics, certain movements in man from the point of view of dynamics, locomotion in man from an artistic point of view, locomotion of quadrupeds and of aquatic animals, aerial locomotion, flight of birds and insects, and the scientific applications of chronophotography. [New York: D. Appleton & Co. For sale by William Doxey; price $1 75.]

STONEPASTURES.

Eleanor Stuart is the author of a short novel, "Stonepastures." She writes like a novice in the realm of fiction. The plot of the story in question is not developed with remarkable cleverness, although some of the incidents are oddly interesting. Saying the Swedish dialect, she makes the Scandinavian heroine discourse in the style of the "down-East Yankee" of the melodrama rather than like a countryman of Ole Olesen. Stonepastures is the Poverty Flat of Soot City. The authoress is probably a pioneer in one thing, however—she has chosen for her heroine a female barber. Emma Butte is the name of the female razor-wielder. She and her father keep a couple of boarders—Simeon Quarry, a Yankee lumberman, and Augustus Jarlson, a Swede, the other. Emma and Jarlson are in love. The day of the wedding is fixed, but just before the happy time for the ceremony the bridegroom is brought home from the furnaces, singed, blackened and sightless and all but dead. He has been "blasted" by a premature explosion. There is a lengthy description of the "blast rite." No one in Soot City was surprised at the discovery that a man is made of flesh. "Such rites were the custom of the terrible, black little town, where the lands flew low, for the damp of the steam and the prevalence of soot in the air, and where any fine man who took the eagerly to the morning might be blasted in the noontide smack, ..." One idea that is directly referable to the Swede minds is that which gave rise to the superstition that feeling had become general that a man might 'get beyond the blast'—that is, get over its scorn and shock—if only the fine things could be brought to behave as if he were really dead." And so Jarlson had funeral services sung over him, and it was Emma's task to bring the dead back to life. When Jarlson was "blasted" a paper was found on him addressed to Miss Emma Butte. The latter had been running a barber-shop for a livelihood, and she laid down the razor after the fatal blast that came to her a fortune of $300. Quarry had always been jealous of Jarlson, and he now made haste to court the latter's fiancée. He appeared to be rather reckless with her money, and Quarry, seizing an opportunity, stole all she had saved. Then, on talk of punishing Quarry for this crime, although he confesses his theft and by his dead drives Emma and Jarlson penniless from Soot City out into the free dwellings of the poor at the stonepastures.

Quarry visits the family in the new quarters and plots death. This opened up the near the supposedly unconscious form of Jarlson. The former awakens from his deathlike sleep. A strike occurs in Soot City and it is planned to blow up the shops. Jarlson has heard the plot from Quarry's own lips while he was supposed the former dead to the world of sight and hearing. Emma, following the instructions of the lover, whose life she had preserved, hurries to the scene and frustrates the devilish design, and Quarry is shot dead while endeavoring to escape. Jarlson becomes himself again and Emma gives up shaving. The couple are married and move from poverty-flat into a downtown mansion, the property of the late Quarry met his fate through Jarlson's information, as the latter discloses the fact that Quarry had had an interview with the murderous intent at the time Jarlson was nearly singed to death. Jarlson becomes an investor and the reader is left to infer with Emma (too fine for the barber trade) learning to play the piano, and Jarlson getting a reputation as a tenor singer. [New York: D. Appleton & Co. For sale by Doxey; price 75 cents.]

SUCCESSORS TO THE TITLE.

There is one commendable thing to be said about this new novel by Mrs. L. B. Walford, just issued in Appleton's Town and Country Library: its moral tone is high, and juvenile readers will be rather benefited by its perusal. It is a simple story, showing how great things may be obtained through a little perseverance. The hero is a listless fellow, with no particular aim in life. He visits a country town, and there fails in love and marries a girl with a small fortune. They travel all the Continent, but on