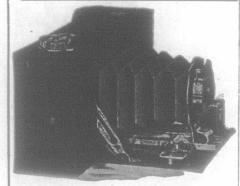
They work like Kodaks



THE BOOK OF THE BROWNIES

At your dealer's or free from us by mail, explains in detail all about these little cameras and how they have made picture taking simple and inexpensive.

Brownie Cameras use the daylight loading film cartridges—just like a Kodak-are efficient, durable and practical little instruments. Anybody can make good pictures with a Brownie without previous experi-

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Quick Relief

for an upset stomach, hiccoughs, a sick headache, constipated bowels, or a bilious attack is secured by using

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cultural colleges and schools; and the existent.

Mendel's discoveries and the discoveries of his disciples following his ing re-combinations of citrus fruits, methods of research, have given us some and Hansen and other daring comfoundly aroused science to the pos- ters will give new values, and the reheredity, both concerning natural evo- in theoretical research give both direcing. DeVries' investigations, with pos- Mendelain breeder. sibly even a larger immediate value It is proper to recognize, however, than Mendel's, have also done much to that the largest value growing out of attract some things which carry units these discoveries, lies in clarifying our of heredity from one generation to the plans for effecting the informal renext and often lie dormant, to appear combination of characters. At first, possibly in their original purity after the then astounding facts concerning two or even many generations of re- the segregation of definite characters cessive somnolence. While Darwin de- and the possibilities of their formal veloped the fact of the evolution of re-combination, almost as chemical species, these men have sharply turned atoms re-combine into new compounds, attention both as to how nature's evo-served to blind us from the larger conlution may be studied, and also as to cept of the very complex network of how man may rapidly recombine and descent, which makes up most of our evolve nature's forms into types of economic types of plants and animals. higher economic value.

many others who are making a specialty be worked out with definite unit char of the science of heredity, the work of acters. In the great bulk of re-combin-Neilson, Zavitz, Garton, Burbank, ing first and second generation hybrids, Swingle, Williams, Gentry, Eckels, in uniting the blood of three or more Craig, and many other breeders of original forms, and especially in blendin plants and animals is rapidly expressing related forms, and forms recently and the possibilities of science and art in much hybridized, and in the vast the terms both of beautiful forms and of amount of necessary selection work, the dollars. And here and there we find art of breeding must be carried out a man who may be laying the founda- without adhering closely to formal retion for a reputation for large public combinations. service in the pedagogics of breeding.

ment of agriculture and of the state always appear like the formula which experiment stations and of similar represented the ideal toward which we institutions in other countries, are year started. Very often the new acquisition by year increasing into a public work breaks in upon us with an unexpected of large magnitude. These institutions combination of forms, which resist our are by no means usurping the field attempts at analysis. The wise breeder They are in fact rapidly ir creasing the chooses that which has the largest field for private efforts in plant breed-economic value, somewhat regardless ing. As yet much less is being done in a of whether he can trace all the threads public way for animal breeding; and of both woof and warp in the new nettheory and technical practice of plant work of descent. And as the years breeding has within a decade far out- go by the newly bred materials, many stripped the theory and practice of of which are highly complex compounds, stripped the theory and practice of animal breeding. It would seem easy increase in numbers the breeder will to predict that public institutions con- have at his command, larger and larger cerned with animal improvement will supplies of basic materials. In some rapidly take the new and inspirational cases the breeder will work down for ment of plants and animals. Enough point of view from the brilliant investigations in plant breeding and will basic materials along the lines pointed add 10 per cent. to its food products lead to a rapid development of the sciout by Shull's work with corn; and here at very little cost, thus materially reence and art of improvement of domesformal Mendelain breeding can be
tic animals. It is of interest to note that practiced most effectively. But it
need of the hour is that we work out a dozen years ago the plant breeders received their best inspiration from the plan, and of the humdrum details already existing and that which promanimal breeders, and that now the tables of the work of making over America's ises rapidly to come, and that we apply are turned and that breeders of animals **n**eed the inspiration from the accelerated work of the breeders of plants.

Probably the most important recent development in relation to plant and animal breeding is the revision of methods of teaching this subject which is now going on, and we may hope ere and animal breeding farms. And the and in the extensive, less formal breed field for amateurs who desire an in- ing, that occasional superior founda teresting avocation is most enticing not tion-plants of exceedingly great variety only in relation to pet animals and orna- producing-potencies may be secured. mental plants but in relation to many minor staple crops, fowls, and smaller searches of Mendel, DeVries, and others animals and even with beneficial in-lead to other discoveries of still wider

I was asked specifically to say a word development of men trained in the regarding the utility of the Mendelain science and art of breeding; also the be- theories as applied to economic breedginnings of a usable literature based on ing. The range of the use of Mendelain the technique developed in scientific philosophy in re-combining in new plant and animal breeding, are all com- types the most desirable of the unit bining to make a new world for human characters found in available types, efforts. And the facts should not be forms a much less portion of the field lost to sight, that men of many nations of economic breeding than Mendelain are beginning to seek the truth con- enthusiasts at first claimed. On the cerning the breeding of the human other hand, there is no doubt that form-family. All along the line modern al re-combination of desired characters science and art have finally begun to in the hybrid breeding of wheats, barattack in a systematic way the re-organ- leys, and many other crops can be ization of unit characters in living forms carried out to large economic results. into more useful types; and, if possible, Spillman's work in the state of Washto create new unit characters not before ington clearly demonstrates this fact in a large commercial way.

Swingle has made many most promisvaluable principles which have used at pounders of radically different species least in a narrow range of breeding and types within species are recording operations. But in addition to this, results which promise new forms in these investigations have most pro- which the re-combinations of characsibilities of investigating operations of combinations made by those engaged lution and artificial evolution or breed- tion and inspiration to the radical

We have now gotten back to the fact The work of Bateson, Tschermak, that only under peculiar circumstances C. B. Davenport, Castle, Webber, and and in particular cases, can hybridizing

Often the network of descent, which The aggregate efforts in the breeding happens to most happily produce the of plants of the United States depart most valuable combination does not back or up to purebred homozygotic and of DeVries' mutation theory will billions of dollars, at very little cost, be to clarify our plans of doing the bulk of this less systematic work.

The new philosophy will be expressed another decade passes that our colleges in a new nomenclature, and as the years of agriculture and universities will have go by, breeding will be taught with more supplied a group of young men well- of the simplicity with which arithmetic grounded in all that is known regarding is taught. It will always be an abstruse research in heredity and in methods of subject, and while the Mendelian breeding plants and animals. Certainly philosophy may seem to simplify the this field offers a most enticing prospect re-combination of nature's original to young men with a liking for and with types. DeVries' mutation theory will a genius for either research in heredity continue to relate in a larger and larger or for the work of creative breeding in way to the importance of using immense public institutions or on private plant numbers, both in Mendelian hybridizing

We need not be surprised if the repractical application in the improve-

PUBLIC WARNING

We wish to warn the public against being imposed on by unscrupulous dealers who substitute with cheap and worthless preparations designed to be imitations of Dr. Fowler's Extract of Wild Strawberry, the wonderful Bowel Complaint

Pharmaceutical concerns are flooding the market with these cheap and worthless preparations, some of which are even labelled "Extract of Wild Strawberry," Wild Strawberry Compound," etc., but they dare not use the name "Dr. Fowler." in the hope that the public may be deceived and led to purchase them, thinking they are getting the genuine "Dr Fowler's."

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is already known to enable the world to would appear that the larger part of methods of utilizing the new knowledge plant and animal forces would be outside these methods on hundreds of thousands the practical work of formal Mendelain of breeding farms throughout the world. re-combination. And I reiterate that A project which has as its goal increas-the larger value of Mendel's discoveries ing of the world's farm products by some

