

Saturn,	.	.	$\frac{3}{2}$	.	.	10,833	.	.	10,759
"	.	.	$\frac{3}{2}$	.	.	6,880	.	.	—
Jupiter,	.	.	$\frac{3}{2}$	.	.	4,133	.	.	4,333
"	.	.	$\frac{3}{2}$	.	.	2,480	.	.	—
Asteroids,	.	.	$\frac{3}{2}$	.	.	1,550	.	.	1,200
"	.	.	$\frac{3}{2}$	.	.	968	.	.	—
Mars,	.	.	$\frac{1}{3}$	.	.	596	.	.	687
Earth,	.	.	$\frac{1}{3}$	.	.	366	.	.	365
Venus,	.	.	$\frac{1}{3}$	.	.	227	.	.	225
"	.	.	$\frac{1}{3}$	.	.	140	.	.	—
Mercury,	.	.	$\frac{1}{3}$	.	.	87	.	.	88

It appears from this table, that two intervals usually elapse between two successive planets, so that the normal order of actual fractions is $\frac{1}{2}$, $\frac{1}{3}$, $\frac{2}{3}$, $\frac{3}{2}$, $\frac{1}{3}$, etc., or the fractions by the short way in phyllotaxis, from which, however, the Earth is excluded, while it forms a member of the series by the long way. The explanation of this, suggested by Peirce, is that although the tendency to set off a planet is not sufficient at the end of a single interval, it becomes so strong near the end of the second interval, that the planet is found exterior to the limit of this second interval. Thus, Uranus is rather too far from the Sun relatively to Neptune, Saturn relatively to Uranus, and Jupiter relatively to Saturn, and the planets thus formed engross too large a proportionate share of material, and this is especially the case with Jupiter. Hence, when we come to the Asteroids, the disposition is so strong at the end of a single interval, that the outer Asteroid is but just within this interval, and the whole material of the Asteroids is dispersed in separate masses over a wide space, instead of being concentrated into a single planet. A consequence of this dispersion of the forming agents is, that a small proportionate material is absorbed into the Asteroids. Hence, Mars is ready for formation so far exterior to its true place, that when the next interval elapses the residual force becomes strong enough to form the Earth, after which the normal law is resumed without any further disturbance. Under this law, there can be no planet exterior to Neptune, but there may be one interior to Mercury.

Let us now look back upon some of the leading features alluded to before, omitting the simpler relations of organized beings to the world around, or those of individuals to individuals, to consider only the different parallel series we have been comparing when showing that, in their respective great types, the phenomena of animal life correspond to one another, whether we compare their rank as determined by structural complication with the phases of their growth, or with their succession in past geological ages; whether we compare this succession with their embryonic growth, or all these different relations with each other and with the geo-