wheel ſhall charge them all equally, and every one as much as one alone would have been. What is driven out at the tail of the firſt, ſerving to charge the ſecond; what is driven out of the ſecond charging the third; and ſo on. By this means a great number of bottles might be charged with the ſame labour, and equally high, with one alone, were it not that every bottle receives new fire, and loſes its old with ſome reluctance, or rather gives ſome ſmall reſiſtance to the charging, which in a number of botttles becomes more equal to the charging power, and ſo repels the fire back again on the globe, ſooner than a ſingle bottle would do.

11. When a bottle is charged in the common way, its *inſide* and *outſide* ſurfaces ſtand ready, the one to give fire by the hook, the other to receive it by the coating; the one is full, and ready to throw out, the other empty and extremely hungry; yet as the firſt will not *give out*, unleſs the other can at the ſame inſtant *receive in*; ſo neither will the latter receive in, unleſs the firſt can at the ſame inſtant give out. When both can be done at once, it is done with inconceivable quickneſs and violence.

12. So a ſtrait ſpring (though the compariſon does not agree in every particular) when forcibly bent, muſt, to reſtore itſelf, contract that ſide which in the bending was extended, and extend that which was contracted; if either of theſe two operations be hindered, the other cannot be done. But the ſpring is not ſaid to be *charg'd* with elaſti-