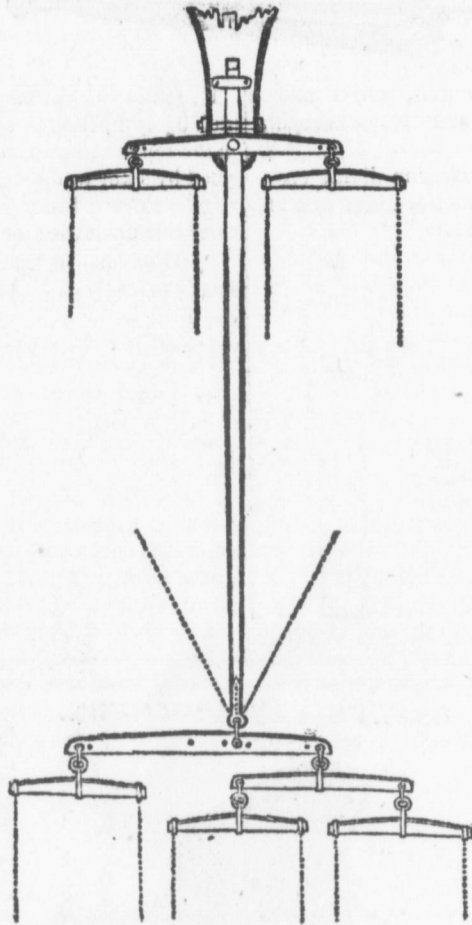


PLAN FOR ATTACHING FIVE HORSES.



GRAFTING.

The great number of modes described in books, have tended rather to bewilder than to enlighten beginners; the following remarks, therefore, are more for the purpose of laying down *reasons* than for pointing out the particular modes of the operation, provided attention is given to the essential particulars.

Propagation by grafting differs mainly and essentially from increasing by cuttings, by inserting the cutting into the growing stock of another tree, instead of directly into the soil. The stock thus supplies the sap, as the soil does in the case of a cutting, and the graft, instead of making roots of its own extends its forming woods downwards, through the inner bark, into the stock itself. Hence there are two chief requisites for success: the first, that the graft be so set in the stock, that the sap may flow upwards without interruption; and the second, that the forming wood may flow downward uninterrupted through the inner bark. To offer these two requisites, it is needful, first, that the operation be per-