tween the inner bark and the wood, the plasters before applying them. should coincide or exactly correspond the graft, but also to exclude the wet, and most certain of success. until by the growth of the graft the union is effected.

- 1. The first requisite is best attained by keeping a keen, flat-bladed knife to cut the faces, and another knife for other purposes.
- The second requires that the jaws of the stock in cleft-grafting, press with some force, but not too much, against the wedge-shaped sides of the graft. A stock one-third of an inch in diameter will some times do this sufficiently; three-quarters of an inch is a more convenient size. In whip-grafting, the tongue and slit should be firmly crowded or bound together.
- 3. The third requisite is attained by close examination.

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formed with a sharp knife, that the in which case it should be worked with vessels and pores may be cut smoothly wet hands, until it may be drawn into and evenly, and the two parts be ribbons of wax, which are wrapped brought into immediate and even con-round the part. In all cases it should tact. Secondar, that the operation be be applied closely, so as to allow if so contrived that a permanent and con-possible no interstices, and covering cut siderable pressure be applied to keep all or split surface otherwise exposed to the parts of these cut faces closely together. air. In cool weather, a lantern, chafing. Thirdly. that the line of division be-dish, or hot brick, is necessary to soften

The annexed figures represent the two in each; for if the inner bark of the one set wholly on the wood of the other, most common modes usually adopted the upward current through the wood for fruit trees; fig. 37, representing whipand back through the bark, is broken, grafting, which if well performed with and the graft cannot flourish or grow, the parts closely pressed together, needs And, fourthly, that the wounded parts no ligature to keep the graft in its. made by the operation, be effectually place; and fig 38, the common mode excluded from the external air, chiefly or cleft-grafting, which except for to retain a due quantity of moisture in small stocks is generally found best

> Fig. 37 Fig. 38.



It is hardly necessary here to mention that propagation by grafting and by cuttings is to be performed early in: 4. The fourth is accomplished by spring before the buds swell; and that plasters of grafting-wax, and by the ap-the grafts or cuttings may be cut late in plication of grafting clay. Grafting autumn or any time during winter, prowax may be made by melting together vided the natural moisture is preserved one pound of beeswax, two of tallow, until used. A convenient mode of thus and four of rosin.* It is spread, when preserving them, is to wrap or imbed melted or softened, on muslin or thin them in damp, not wet moss; or bury unsized paper, with a brush or spatula, them in a box, beneath the surface of a It is sometimes applied without plasters, dry spot of earth, the box to be open downwards, and the grafts to be kept * More wax and less rosin is less adhesive from contact with the earth by sticks across the inside of the hox.

to the hands, but more expensive.