they may not vegetate; leaves and flowers, of a more corruptible nature than roots, by being beaten with about thrice their weight of fine fugar to prevent their corruption, and kept in a close vessel.

Plants which bear drying are commonly hung in a warm airy place, defended from The colours of herbs and flowers the fun. are for the most part changed or destroyed, in drying, by the fun's beams; but that their medicinal virtue suffers a like dimi. nution, does not appear. Thus much is certain; that a heat of culinary fire, equal to that of the fun in fummer, does them no injury in either respect > And that both flowers and leaves, when thus hastily dried by the fire, preserve the liveliness of their colour, and their smell and talle, more perfectly than by flow exficuation. The leaves of moderately juicy plants are reduced, by drying, to about one fourth of their original weight.

Some roots, and some other parts of vegetables, how thoroughly soever they have been dried, are liable, in keeping, to grow mouldy and carious. This inconvenience might probably be obviated by dipping them, when dried, in boiling spirit of wine, or exposing them to its vapour in a close vessel. It is said, that some of the oriental spices are made less perishable, by being dipt in a mixture of lime and

water.

The pulps of fruits are separated from the seeds and membranous parts, by forcing them through a strong hair seve. If the souit is unripe and hard, or if it is dry, it should be previously sostened by boiling in a little water; and the pulp, after passing through the seve, is to be inspissated over a gentle sire, with care to

prevent its burning.

The concrete gummy-refinous juices brought from abroad, which have utually a confiderable mixture of hits of flalks, leaves, feeds, &c. are-purified, hy adding fo much boiling water, as will fo far foften or diffolve them, that they may be preffed. whilft hot, through a firainer; and then inspitsating the strained liquid, in a gentle heat, to the original confidence of the gummy-refin. If the quantity of water is confiderable, the refinous part commonly feparates and fubfides, and in this care is to be kept by itself till towards the end of the inspissation of the gummy, -at which time they may be easily united again together into an uniform mals. Some of the gummy refins, exposed to the heat of boiling water, melt thin enough, without any addition, to be preffed through a canvas strainer. In either process, the operator must be careful to prevent as much. as possible, the dissipation of the more volattle parts; an injury which cannot be wholly avoided, especially when the subjects are dissolved by water. The finer tears unpurified are in many cases preserable, for internal use, to those that have been strained.

Pulverable bodies of an earthy texture; or such as are brittle and not dissoluble in water, after being reduced to a powder of moderate finencis, are brought to an impalpable or very volatile state, by grinding them with a little water on some hard smooth instrument : The matter is commodiously adried on a chalk stenes, or rather on a cake of plaister of Paris, which equally absorbs the moissure, without adhering to the powder like substances of, the chalky kind. Powders thus levigated are still found to contain a quantity of gross parts; which may be separated by shaking the matter with water, till it is diffused through the fluid, and then suffering it to fettle: The groffer parts from fublide; and the turbid liquor, being he w poured off, deposits more flowly the finer By this process, powders may be powder. obtained of any degree of fineness; the tenuity being in proportion to the length of time that they remain suspended in the fluid. On the same principle, the bolar. earths may be separated from the gritty matter naturally mixed with them, metallic bodies from those of the earthy kind, and the calces of metals from metallic particles uncalcined.

Salts are purified from indiffoluble admixtures, by folution in water and filtration through paper. Water dissolves, in a boiling hear, a much larger quantity of most kinds of salts than it can retain when cold: Thus, of nitre, it disfolves when boiling near three times its own weight, but in coolling a part of the falt gradually separates, till at length, when grown thoroughly cold, in frosty weather, it does not retain one eighth its own weight, or one twenty-fourth of the quantity of falt The neutral falts, or at first dissolved. those composed of an acid and an alkali; feveral of those which contist of an acid and an earthly or metallic body; and many of the acid falts of vegetables; in this: separation from their solutions, concrete, unless too hastily forced together by fudden cooling, or disturbed by agitation or other causes, into transparent masses, of regular figures peculiar to each particular kind of falt, and thence called crystals-There are two general methods of recovering falts from their folutions in a crystalline form; one adapted to some salts, and the other to others. The one is, by keeping the folution in a gentle and equable warmth, that the water may gradually

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exhale,