<page>041r</page>

<image>http://gallica.bnf.fr/ark:/12148/btv1b10500001g/f87.image</image>

<div>

<id>p041r\_1</id>

<head><m>Earth for casting, for <pro>founders</pro></m></head>

<ab>It renders itself fat once beaten and also mixed with <m><al>horse</al> dung</m>. <m><pro>Potter</pro>'s earth</m> would be too fat and would crack &amp; would not hold in the fire, but one needs to mix it with <ms>half the quantity</ms> of sand and a <ms>quarter</ms> or a <ms>fifth</ms> of <m><add><al>horse</al></add> dung</m>. And leave it to dry, then powder it, then <tl>sift</tl> it to render it fine &amp; cleansed, which would prevent it from casting neatly. The <m>dung</m> renders the <m>earth</m> more amenable &amp; easier to deal with, but it is necessary that it be well free of <m>straw</m> &amp; other things. And when the <m>earth</m> is very fat, one needs to give it more sand &amp; more <m>dung</m>. But one does find fat varieties of <m>earth</m>, themselves mixed with sand. If they are not, make them so artificially. One always needs to reheat the <m>earths</m> before casting.</ab></div>

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<id>p041r\_02</id>

<head>Garden lilly</head>

<ab>If one breaks it at its first blossom &amp; it will grow &amp; bloom only in the following year, &amp; know the bulbous plants do thus.</ab></div>

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<id>p041r\_03</id>

<head>Sand</head>

<ab>The sand chosen <del>cast</del> for casting should be neither so lean that it has no stickiness, nor too fat. And even if it is found <env><m>in nature</m></env>, however, it is not everywhere. And if you are in a place where it is not found, you can make it, but not with <m>fat earth</m>, for the sand does not want any of that, for it makes it very porous. But you can make it bindable with <m>brick well ground</m> on <tl><m>marble</m></tl>, or <m>plaster</m> or <m>calcinated alabaster</m> or something similar, or the <m>burned marrow of <al>ox</al> horn</m> or <m>burned asphalt</m>. If you grind it quite finely on <tl><m>porphyry</m></tl>, it <del><fr>s</fr></del> acquires stickiness better &amp; then you can burn it with <m>asphalt</m> or mix it with a <ms>quarter part</ms> of <m>tripoli</m>. Guard against <m>bread</m> falling into your sand because it makes it very porous.</ab>

<ab>

<margin>left-middle</margin>

Try mixing in <m>soot black</m>.</ab></div>

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<id>p041r\_04</id>

<head><al>Ducks</al></head>

<ab>Young domestic ones do not grow for a month after they are hatched, but remain in this state. But after they quickly grow, similarly if they go into the water. One feeds them with boiled <m>millet grains</m>, crumbling them among <m>bread</m> and spreading in well chopped <m>lettuces</m>.</ab></div>