<page>099r</page>

<image><http://gallica.bnf.fr/ark:/12148/btv1b10500001g/f203.image></image>

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<id>p098v\_5</id>

<ab><m>Earth</m>, or sand, moistened or ground with <m>water</m>, wants to be reheated more than sand.</ab>

<ab><m>Latten from a candlestick</m> is not pure, for one mixes in it <m>iron filings</m> &amp; <m>potin</m>.</ab>

<ab><m>Latten</m> wants to be cast hotter than <m>copper</m>, <la>quod non credo</la>.</ab>

<ab>One ought not, to cast carefully, to take <m>metals already alloyed</m>, but take them pure &amp; mix them.</ab>

<ab><m>Iron</m> hardly agrees with being cast in a mixture of <m>copper</m> or <m>latten</m>.</ab>

<ab>It is better all with a sand, either in a <tl>frame</tl> or <fr>noyau</fr> at once, rather than several mixed.</ab>

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One ought to reheat for one or two <ms><tmp>hours</tmp></ms> <del><fr>et p</fr></del>, in <add><del>that</del>a</add> <m>charcoal</m> fire which lights by itself, a <tl>crucible</tl> with the substance inside, and then blow &amp; cover the <tl>crucible</tl> with large <m>charcoals</m> &amp; the mouth of the <tl>furnace</tl> with <tl><m>bricks</m></tl>, and let it consume two or three feedings of <m>charcoal</m>, which <del><fr>se</fr></del> fill the <tl>furnace</tl> above the <tl>crucible</tl>. In the end feed and stoke the fire, &amp; when the flame is very white &amp; that the substance will be in a liquid <fr>bain</fr> like <m>water</m> &amp; casting off pale blue flames, cast. The secret is to cast <add>very</add> hot &amp; in one go.</ab>

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<id>p099r\_2</id>  
<head><m>Lean white sand</m></head>

<ab>Without bond renders well proper for casting, &amp; having body, if you grind it very finely on <tl><m>porphyry</m></tl> or calcine it, reddening it several times in the fire, &amp; spread it in <m>vinegar</m> or finely grind it with <m>water</m>, as you know. It also molds very neatly in <fr>noyau</fr>, as I have experimented. But do not moisten it with <m>salt water</m> if you want to quickly reheat it, for <m>salt</m> boils on the fire &amp; makes bubbles, being pressed by the fire. I believe that the <fr>noyau</fr>, gently reheated, would not do this. I molded very neatly in <fr>noyau</fr> the <m>substance of skillets</m>. <m>White sand</m> <sn>smells like <m>sulphur</m></sn> when reheated, and I believe it would melt. And since the substance has been cast in it, it acquires in the <tl>mold</tl> <del><fr>co<exp>mm</exp>e</fr></del> a luster as if it were <m>leaded</m> or vitrified. I believe that <pro>glassmakers</pro> could use it.</ab>

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One needs very little of <m>sal ammoniac</m> dissolved in <m>water</m>.</ab>

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<id>p099r\_3</id>  
<head>Bell handles</head>

<ab>

They can be put back on, without remaking the bell, which one ought to put back in the pit, &amp; and mold it there. But should you <m>solder</m> a <del><fr>ref</fr></del> cracked bell, it is considered impossible to give it its first voice.</ab>

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