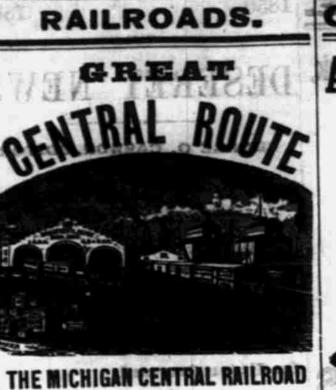


IVORY AND ITS SUBSTITUTES.

Ivory is one of those substances which, like gold, have been used from the earliest times for purposes of traffic and in the fabrication of articles of use or ornament. True ivory occurs only in the tusks of the elephant, and is dis-tinguishable from all other varieties of tooth substance by the lozenge shape of its cells when cut traversely. The quan-tity used in the arts is very great, that imported annually into Great Britain alone being about five hundred tons, worth, say, five thousand dollars a ton in gold. The tusks of the African ele-phant are said by some writers to be the most valuable, from the greater density and hardness, while others assert that the ivory of Ceylon and of the Island of Achem does not turn yellow by age, which renders it superior to that of all other countries. The teeth of the wal-rus, narwhal, and hippopotamus are large and dense enough to be used as a substitute for true ivory. Those of the last named animal, before the use of porcelain for the purpose, were especially valued for making false teeth, for which they were well adapted from the purity of their white color and the absence of perceptible grain. In the manufacture of some articles from ivory it is desira-ble that the material should be made flexible, which is done by soaking it in a solution of phosphoric acid, having a specific gravity of about 1.130. This renders it flexible like leather and also translucent. It hardens on exposure to the air, but may be softened again by immersion in hot water. This is the modern method, but formerly a different

one, as follows, was recommended: "Lay twelve hours in aquafortis, and then three days in the juice of beets. To harden again, lay the material in strong vinegar."

An old Greek who lived three thou-



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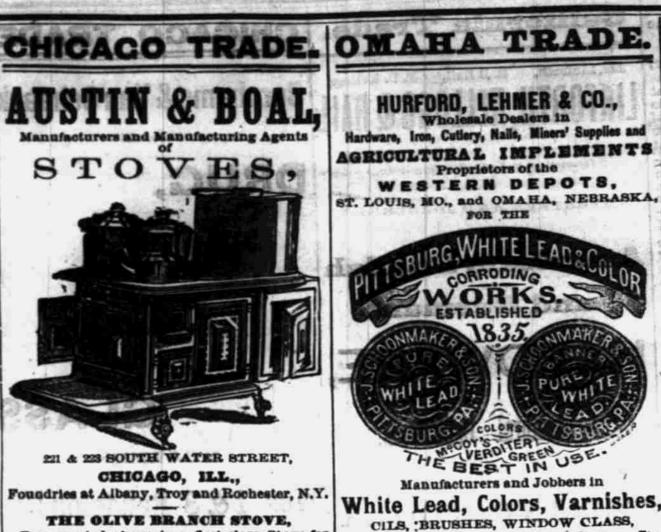


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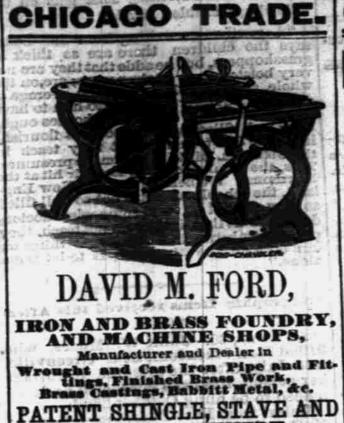
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