




## MH：


tuifod to temperigg cuting tindruments made

 tainty and speed．The common mothod prac－
tised before and still practised by many，was by heating the instruments over a flame of fire
till a certain color produced by a film of the till a certain color prosucfice．These colors
oxide appeared on the surfer
were indicited at different degrees of heat． A yellow was a hard temper and appeared from heat of 430 degrees to 480 ．Hard steel polish ed and heated to $510^{\circ}$ appears of a purple color
and at $550^{\circ}$ a bright blue．This is the heat for swords and watch springs，and if heated to
$600^{\circ}$ for pit saws，the metal appears of a blue $600^{\circ}$ for pit saws，the metal appears of a blue
black and has to be polished of its oxide to look well．If steel be heated more than $600^{\circ}$ it be comes very sof．Tools baving thick backs and
thin edges are tempered lyy placing their back on a bot iron plate so that the edge may not be
heated more than the back．To prevent the warping of long blades they are hardened
being plunged vertically into water．The me struments，but the oil bath is not inferior．The
different colors on steel can be removed by polishing and therehy hlue and bright＇flower We have heru iuffirmod（hut have not made
the experimen：）that a pulished plate of the
finest steel if smeared with soft soap heated to

Consumption and Ventilation．－Sir Jacoh Carks，physician to the Queen of England，eni－
merates as the exciting canse of consumption long confinement in cluse ill．－ventilated rooms
whether nurseries，or school－rooms，or mann perfect health，aud of the healthiest parent， will ofien suffice to induce tubercelous chachex－
ia＂－he beginning of consumption．－Persons
engaged in connined close rooms，or workshops
are the chief sufferers from consumption ；thus，
of the 233 tailors who died in one distrit in
London，in 1839,123 died of diseases of the



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