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Turning and mechanical manipulation

Charles Holtzapffel

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This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1866 Excerpt: ... heavy. Chains may be taken as another familiar example of welding; in these the iron is cut off with a plain chamfer, as from the annular form of the links their extremities cannot slide asunder when struck; every succeeding link is bent, introduced, and finally welded. In some of these welded chains the links are no more than half an inch long, and the iron wire one-eighth of an inch diameter; several inches of such chain are required to weigh one pound: these are made with great dexterity by a man and a boy at a small fire. The curbed chains are welded in the ordinary form and twisted afterwards, a few links being made red-hot at a time for the purpose. The massive cable-chains are made much in the same manner, although partly by aid of machinery: the bar of iron, now one, A piece of tube of the smallest dimensions, and fourteen feet long, which has been bent cold almost into the form of the Gordian knot, may be seen at the Institution of Civil Engineers. The wrought-iron tubes of hydrostatic presses, which measure about half an inch internally, and one-fourth to three-eighths of an inch thick in the metal, are frequently subjected to a pressure equal to four tout on each square inch. Pipes prov. d to the same degree are also used in Mr. Perkins' patent apparatus for warming buildings, and in his patented steam-boiler. The safety of each of these is entirely secured by a fusible plug, which melts and allows the water to escape into the fire when its temperature exceeds any predetermined degree, namely, from about 300 to

600 F., generally the former. one and a half, or even two inches diameter, is heated, and the scarf is made as a plain chamfer by a cutting machine; the link is then formed by inserting the end of the heated bar within a loop in the edge
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