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KEY=MACHINERY, - BRAY COLLINS

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So far from perfect combustion, and perfect smokelessness, in a steam-engine furnace being identical, they are, very commonly, the antithesis of each other; perfect combustion being the most completely effected when the whole of the oxygen passing through the grate is the most nearly or perfectly used up in combining with the hydrogen and carbon of the fuel, although it may be occasionally accompanied by the inappreciably small loss of a few uncombined atoms of the latter substance in the form of smoke or 'soot, which in fact it is, in a finely-divided and impalpable state, merely giving a black color to the nitrogen and other useless incombustible gaseous products of the furnace. These products must pass off, visible or invisible, at whatever cost, although we question, were it possible to collect all the fuel in a large volume of visible smoke many hundreds of miles in extent, whether it would amount to a single ton of coals. A smokeless furnace, however, on the other hand, when the result of a thick fire, thick bars, and slow combustion, may, and frequently does, occasion a loss of a large part of the carbon of the coal, which passes off by the chimney, only half-burned, in the shape of perfectly invisible carbonic oxide-gas, thus creating a dead loss of 25 per cent. in coal. This evil, however, admits of prevention in these double furnaces, and by other simple means. As to the strength of this boiler, the furnace-plates are of Low Moor iron, three-eighths of an inch thick, the flue and shell of the same thickness of the best Staffordshire, and the flat ends... **A Practical Treatise on Mechanical Engineering Comprising Metallurgy, Moulding, Casting, Forging, Tools Workshop Machinery, Mechanical Manipulation, Manufacture of the Steam-engine, Etc. with an Appendix on the Analysis of Iron and Iron Ores, to which are Added Observations on the Construction of Steam-boilers A Practical Workshop Companion for Tin, Sheet Iron, and Copper Plate Workers... The Modern Practice of American Machinists and Engineers ... Together with Workshop Management, ... 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