



# **Locomotive Dictionary; An Illustrated Vocabulary of Terms Which Designate American Railway Locomotives, Their Parts, Attachments and Details of Constr**

*U. S. Government, American Railway Association*

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This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1909 edition. Excerpt: ...scale, hematite ore or some other oxide of iron and subjecting them to a continued red heat for from four to six days. They are then allowed to cool slowly. The change which takes place is internal, and while little or no carbon is removed its physical condition is changed from graphite to amorphous or cement carbon and the iron is rendered less brittle. Malleable castings can be bent within moderate limits, but are not truly malleable like wrought iron. Many parts used in locomotive work are made of it, including couplers, brake levers, journal boxes and many small castings. Mallet Articulated Compound Locomotive. Figs. 22, 51, 84-87. A system of compounding proposed by A. Mallet. The driving wheels are divided into two groups of two or three pairs of wheels each. The rear group is carried by the main frame of the engine, and is driven by two high-pressure cylinders. The forward group is carried by a supplementary frame and is driven by a pair of low-pressure cylinders; the frame and wheels of the low-pressure engine constituting a swiveling truck supporting the front end of the boiler. The object is to obtain a locomotive of great weight and power, but having a short rigid wheel base to permit its rounding sharp curves. Mandrel. 1. (For Lathes.) A shaft serving as a temporary axis for objects to be turned. 2. (Foundry.) A plug around which a body of metal is cast. Mandrel Pin or Cross Bar (Swing Link Hanger). The bar which supports the swing plank. See Swing Hanger. Manhole Cover. 1, Figs. 4067-4118. A plate or lid to close a Tank Manhole, which see. Manhole Eye. 2, Figs. 4067-4118. A ring fastened to the lid of a Tank Manhole, which see. Manhole Hinge. 3, Figs. 4007-4118. A hinge by which a tank manhole cover is attached to the manhole...

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