THE MASTER CAR BUILDERS' ASSOCIATION

# CAR BUILDERS' DICTIONARY

1906 Edition



FreightCar America, Ex. 1009
IPR Petition - USP 8,132,515

# The Car Builders' Dictionary

AN ILLUSTRATED VOCABULARY OF TERMS WHICH DESIGNATE AMERICAN RAILROAD CARS THEIR PARTS ATTACHMENTS AND DETAILS OF CONSTRUCTION WITH DEFINITIONS AND ILLUSTRATIONS OF TYPICAL BRITISH PRACTICE IN CAR CONSTRUCTION

*SIX THOUSAND THREE HUNDRED AND FORTY-FOUR ILLUSTRATIONS*

1906 EDITION

COMPILED FOR THE MASTER CAR BUILDERS' ASSOCIATION

By RODNEY HITT

*Associate Member, Master Car Builders' Association*

UNDER THE SUPERVISION OF THE FOLLOWING COMMITTEE:

C. A. SELEY, *Mechanical Engineer, Chicago, Rock Island & Pacific*
H. F. BALL, *Superintendent of Motive Power, Lake Shore & Michigan Southern*
J. E. MUHLFELD, *General Superintendent of Motive Power, Baltimore & Ohio*

THE FIRST EDITION OF THE CAR BUILDERS' DICTIONARY WAS PUBLISHED BY THE RAILROAD GAZETTE IN 1879, UNDER CONTRACT WITH AND UNDER THE DIRECTION OF THE MASTER CAR BUILDERS' ASSOCIATION. IT CONTAINED 811 ENGRAVINGS
IT WAS REVISED AND PUBLISHED UNDER SIMILAR CONDITIONS IN 1884, AND CONTAINED 2188 ENGRAVINGS
IT WAS REVISED AND SIMILARLY PUBLISHED IN 1895 AND CONTAINED 5683 ENGRAVINGS
IN 1903 IT WAS AGAIN REVISED, THE EDITION CONTAINING 4971 ENGRAVINGS

1906

THE RAILROAD GAZETTE

NEW YORK: 83 Fulton Street CHICAGO: 375 Old Colony Building

THE RAILWAY GAZETTE

LONDON: Queen Anne's Chambers, Westminster, S. W.



FreightCar America, Ex. 1009
IPR Petition - USP 8,132,515

# ACTION OF THE MASTER CAR BUILDERS' ASSOCIATION.

At the Fifth Annual Convention, held in Richmond, Va., in 1872, it was

"Resolved, That a committee be appointed with power to publish an illustrated book, defining the proper terms or names of each and every part used in the construction of railway cars, and a description of the use of the same."

At the Fourteenth Annual Convention, held in Detroit, in 1880,

"The Committee to whom was assigned the duty of preparing a Dictionary of Terms used in the construction of cars submitted a copy of the book and reported that they had finished their work, and were discharged."

At a meeting of the Executive Committee of the Master Car Builders' Association, held in New York, December 11, 1905, Messrs. C. A. Seley, H. F. Ball and J. E. Muhlfeld were appointed a Supervising Committee for the 1906 revision of the Car Builders' Dictionary.

*Copyright*
THE RAILROAD GAZETTE
1906



FreightCar America, Ex. 1009
IPR Petition - USP 8,132,515




Fig. 50. Steel Hopper Car. Capacity, 100,000 lbs. Weight, 43,600 lbs.
Pressed Steel Car Co., Builders.
*(Drawings of this car are shown in Figs. 424-429.)*

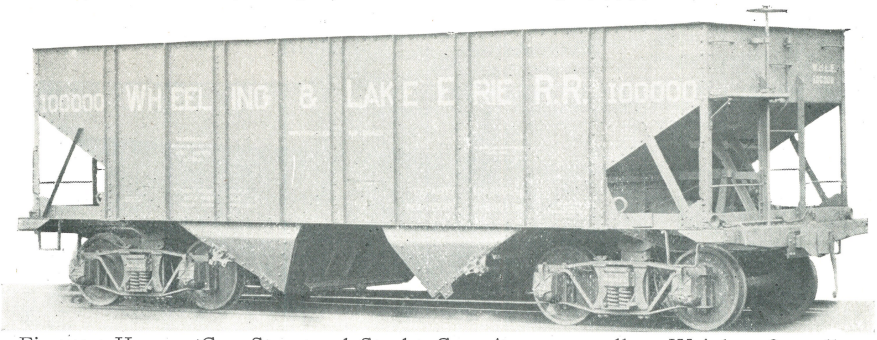



Fig. 51. Hopper Car, Structural Steel. Capacity, 100,000 lbs. Weight, 38,300 lbs.
Standard Steel Car Co., Builders.

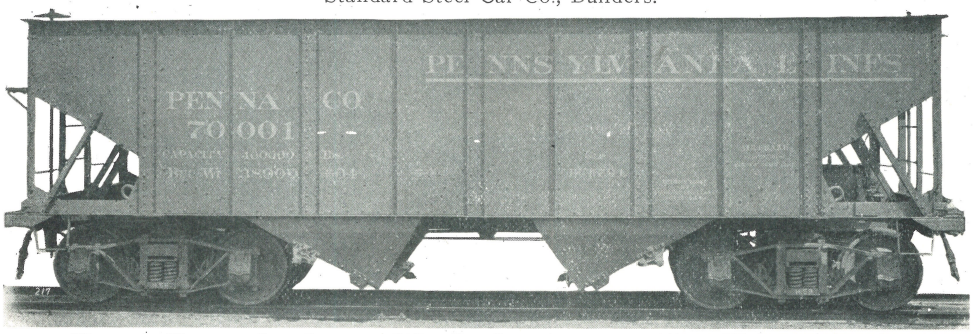



Fig. 52. Hopper Car, Structural Steel. Capacity, 100,000 lbs. Weight, 38,900 lbs.
Standard Steel Car Co., Builders.
*(Drawings of this car are shown in Figs. 413-416.)*

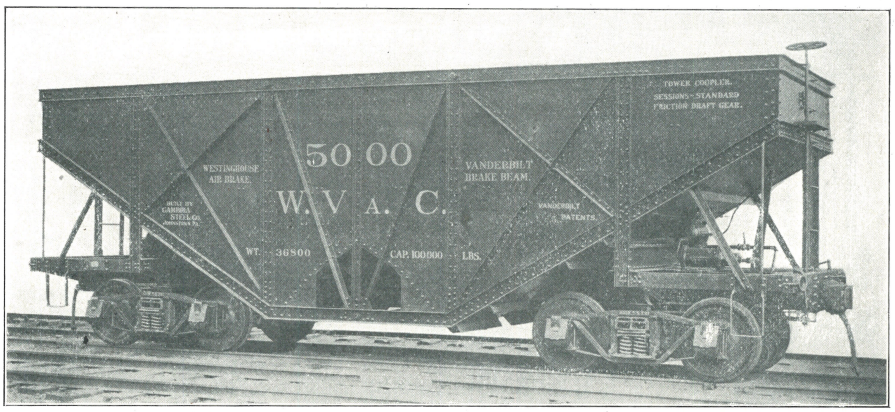



Fig. 53. Hopper Car, Structural Steel, Vanderbilt Patent. Capacity, 100,000 lbs. Weight, 36,800 lbs.
Cambria Steel Co., Builders.
*(Drawings of this car are shown in Figs. 417-420.)*





FreightCar America, Ex. 1009
IPR Petition - USP 8,132,515

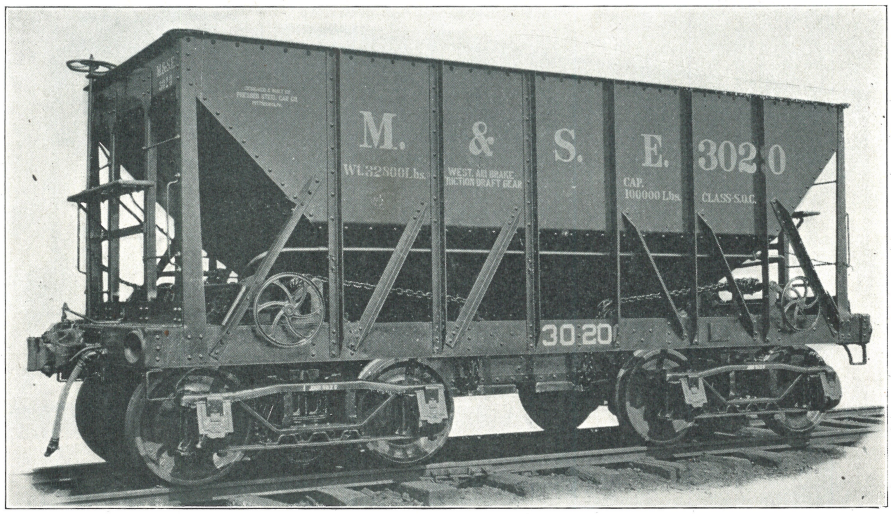



Fig. 54. Ore Car, Pressed Steel. Capacity, 100,000 lbs. Weight, 32,800 lbs.
Pressed Steel Car Co., Builders.

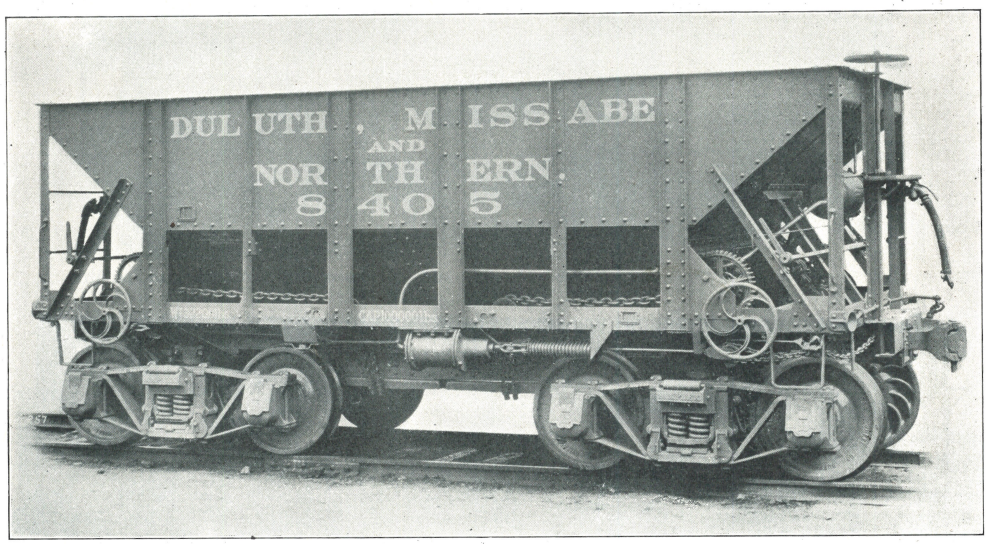



Fig. 55. Ore Car, Structural Steel. Capacity, 100,000 lbs. Weight, 32,200 lbs.
Standard Steel Car Co., Builders.
*(Drawings of this car are shown in Figs. 439-442.)*

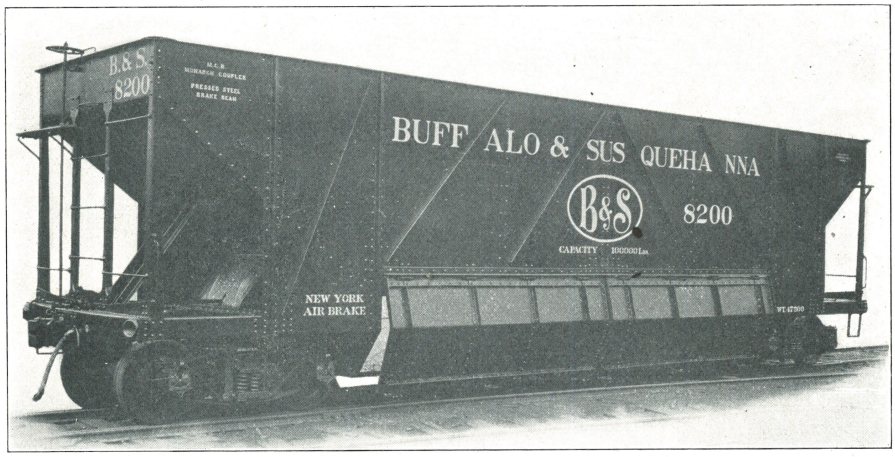
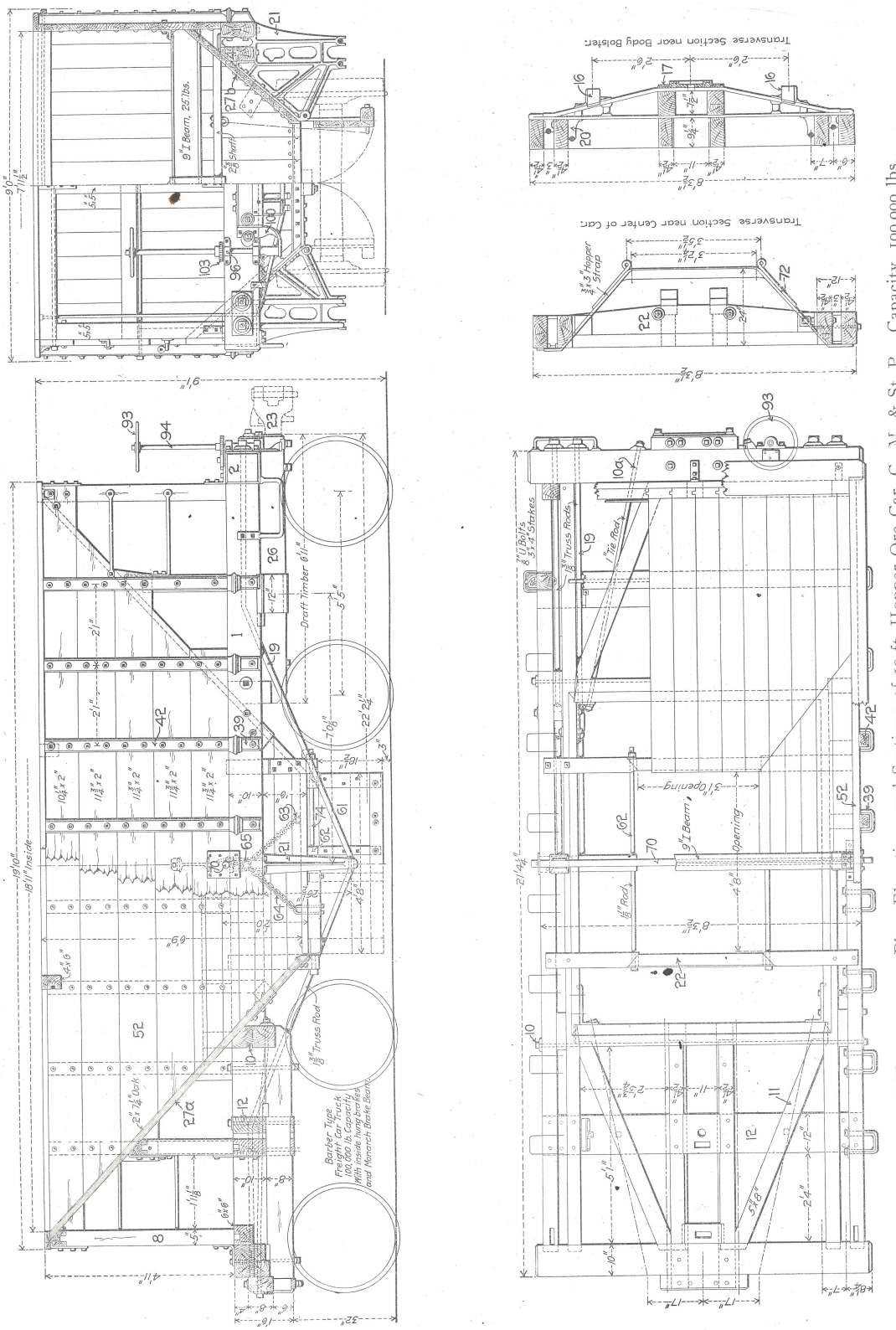



Fig. 56. Coke Car, Pressed Steel. Capacity, 100,000 lbs. Weight, 47,500 lbs.
Pressed Steel Car Co., Builders.



FreightCar America, Ex. 1009
IPR Petition - USP 8,132,515

Numbers Refer to List of Names with Figs. 415-416.




Figs. 430-434. Plan, Elevations and Sections of 19-ft. Hopper Ore Car, C., M. & St. P. Capacity, 100,000 lbs.





FreightCar America, Ex. 1009
IPR Petition - USP 8,132,515