

Appendix G

Stanley Patent Information—Introduction

by H. James Merrick — Stanley Museum, Inc., ©2004

The following charts contain information on the intellectual property of the Stanley Brothers, who received 31 U.S. patents, either jointly (sixteen to F.E. & F.O.; one to F.E. and his nephew Carlton Stanley) or individually (eleven to F.E.; three to F.O.), and at least one British patent (granted to both twins). The first table gives a complete record of what is currently known of the patents issued to the Stanleys themselves. The second table focuses on the steam car related patents of the Stanley twins, here arranged in application order to illustrate the context or sequence in which these patents were originally conceived.

The primary source for tracing U.S. patents is the *Official Gazette* of the U.S. Patent and Trademark Office, published every Tuesday since 1872. The Tuesday publication of the *Official Gazette* serves (in part) to demystify an odd characteristic of U.S. patents: although numbered sequentially, all U.S. patents are issued only on Tuesdays. A long-standing tradition formalized in 1850 but in practice much earlier, the weekly “patent Tuesday” issue sequence must be considered when attempting to extrapolate dates of early patent numbers.

Another source for Stanley Steamer patents is the data derived from Stanley patent date plates: small brass plates embossed with applicable patent dates and affixed to Stanley cars built between circa 1907 and 1914. The dates on these plates correspond to 23 or 24 patents issued between 1899 and 1905. Thirteen of these patent dates relate to patents issued to the Stanley Brothers; the remaining patents were later purchased or otherwise acquired by the twins to

establish their rights to manufacture and market their cars as they saw fit. These patents are described in Table 3.

Additional documentary sources include patent references in correspondence and court documents, and references cited within the patent documents themselves. A key source is a letter written by F.E. Stanley to the editor of *Motor Age* and published on January 3, 1907, in which he describes the acquisition in late 1906 of “all of the patents which the Locomobile company had obtained from all sources pertaining to steam carriages.” The Locomobile Company of America, like the Stanley Motor Carriage Company, was quite discreet in its business transactions but is believed to have amassed perhaps 70-100 steam-related patents through the purchase of the Stanleys’ early steam car business, the Overman Wheel Company, the Whitney Motor Wagon Company, and other sources. The records of known Locomobile patents acquired in this sale are added to Table 4. Some of these patents are officially listed as assigned to the Stanley Motor Carriage Company by “mesne” [*pronounced “mean”*] assignments, transferred to SMCC during the interval (“mesne”) between their date of application and their date of issue. These assigned and purchased patents, including two patents later assigned to the Steam Vehicle Corporation of America, are described in Table 4. Other pertinent patents remain unidentified, known to us only as dates on surviving examples of Locomobile and Stanley patent date plates. Some possibly related patents in this group are described in Table 5.

Table 1: Patents Granted to Stanley Brothers

Compiled by Robert E. Wilhelm, Jr. and H. James Merrick

Patent Number	Date Issued	Patent Title	Inventor	Application Date	Serial Number	Assigned To (according to patent)	Notes	Class
182,389	9/19/1876	Improvement in Atomizers <i>[air brush patent]</i>	Francis Edgar Stanley	6/20/1876				239/354, 239/363, 239/369
345,331	7/13/1886	Machine for Manufacturing Photographic Dry Plates	Francis Edgar Stanley Freelan Oscar Stanley	8/27/1885	175,423			118/59
GB2844	5/13/1899	Improvements in and connected with Steam Generators	Francis Edgar Stanley Freelan Oscar Stanley	2/8/1899			British application similar to 735,021.	
632,376	9/5/1899	Carburetor <i>[for generating air-gas for lighting]</i>	Francis Edgar Stanley Freelan Oscar Stanley	2/11/1897	622,915			261/28
632,377	9/5/1899	Carburetor <i>[for generating air-gas for lighting]</i>	Francis Edgar Stanley Freelan Oscar Stanley	6/19/1899	721,128			
637,176	11/14/1899	Burner for Steam Generators	Francis Edgar Stanley Freelan Oscar Stanley	7/31/1899	725,654		Referred to by Stanley patent 735,021. Referred to by Mudge patent 658,114 (assigned to Locomotive). Refers to serial numbers 698,448, 726,613, and 733,802.	193/44
637,428	11/21/1899	Vaporizing Attachment for Burners	Francis Edgar Stanley Freelan Oscar Stanley	8/9/1899	726,696			431/6, 431/247
657,711	9/11/1900	Motor Vehicle <i>[placing of parts]</i>	Francis Edgar Stanley Freelan Oscar Stanley	10/16/1899	733,802	Stanley Automobile Company	Referred to by patent 637,176 Refers to serial numbers 4,007, 698,448, 718,080, and 726,613.	122/3
659,991	10/16/1900	Steam Generator <i>[boiler]</i>	Francis Edgar Stanley Freelan Oscar Stanley	9/13/1900	29,922	Locomotive	Originally applied for on 12/29/1899.	122/3
659,992	10/16/1900	Vapor Burner for Steam Generators	Francis Edgar Stanley	3/16/1900	8,936	Locomotive		122/23, 431/161

Table 1: Patents Granted to Stanley Brothers, cont.

Patent Number	Date Issued	Patent Title	Inventor	Application Date	Serial Number	Assigned To (according to patent)	Notes	Class
661,561	11/13/1900	Tubular Steam Boiler	Francis Edgar Stanley Freelan Oscar Stanley	5/24/1899	718,082	Stanley Automobile Company	Referred to by patent 735,021.	122/115, 165/172
663,836	12/11/1900	Running Gear for Vehicles	Francis Edgar Stanley Freelan Oscar Stanley	8/8/1899	726,613	Mesne to Stanley Automobile Company	Referred to by patent 657,711.	280/124.171, 180/350, 280/124.156, 280/141, 280/798, 301/132
672,337	4/16/1901	Cross Head	Francis Edgar Stanley	10/6/1900	32,306	1/2 to Freelan Oscar Stanley	Referred to by patent 788,610.	384/11
675,421	6/4/1901	Motor Vehicle	Freelan Oscar Stanley	3/2/1901	49,610	1/2 to Francis Edgar Stanley		180/63
678,911	7/23/1901	Steam Generating Apparatus <i>[superheater]</i>	Francis Edgar Stanley Freelan Oscar Stanley	1/30/1900	3,324		The Stanleys had two patents issued on 7/23/1901. This patent would have applied to their cars.	122/467
678,912	7/23/1901	Steam Generating Apparatus <i>[flash spot boiler]</i>	Francis Edgar Stanley Freelan Oscar Stanley	2/17/1900	5,607		Flash boiler that was licensed to the White Steam Car Company.	122/33, 122/41, 122/448.1
722,330	3/10/1903	Low Water Alarm For Steam Boilers <i>[fusible plug]</i>	Freelan Oscar Stanley	10/25/1902	128,726		Referred to by patent 657,711.	122/504.1; 122/504
728,512	5/19/1903	Water Level Indicator	Francis Edgar Stanley	10/25/1902	128,747			73/321
730,307	6/9/1903	Steam Motor Vehicle <i>[engine on axle & housing]</i>	Francis Edgar Stanley	11/5/1902	130,147			180/56, 74/606R, 74/607, 180/298
733,088	7/7/1903	Steam Superheater	Francis Edgar Stanley Freelan Oscar Stanley	10/24/1902	128,648			122/467

Table 2: Stanley Automotive Patents by Application Date

The following table arranges the Stanley brothers’ automotive patents in order of application date. This most closely represents the sequence in which the Stanleys considered their inventions fully developed and ready for patent protection. The usual presentation, by patent number and hence by date of issue, tends to obscure this context because the interval between the filing of an application and

grant of a patent, the “pending period,” varies greatly. This presentation also demonstrates that the brothers’ modus operandi (e.g. filing jointly, filing separately with partial assignment to the other, assignment to Stanley Automobile Company) tended to be consistent during a specific period of time.

Patent No.	Serial No.	Date of Application	Date of Award	Applicant/Grantee	Assignee	Title	Remarks
735,021	698,448	12/06/1898	07/28/1903	FE & FO Stanley	Stanley Automobile Co.	Steam-Generator	
GB2,844		12/06/1898-US 02/10/1899	05/13/1899	FE & FO Stanley		Improvements In and Connected With Steam Generators	British version of 735,021
none awarded	718,080	05/24/1899	na	FE & FO Stanley			Cited in 637,176 & 657,711
661,561	718,082	05/24/1899	11/13/1900	FE & FO Stanley	Stanley Automobile Co.	Tubular Steam Boiler	
637,176	725,654	07/31/1899	11/14/1899	FE & FO Stanley		Burner for Steam Generators	
663,836	726,613	08/08/1899	12/11/1900	FE & FO Stanley	Stanley Automobile Co.	Running-Gear for Vehicles	
637,428	726,696	08/09/1899	11/21/1899	FE & FO Stanley		Vaporizing Attachment for Burners	
657,711	733,802	10/16/1899	09/11/1900	FE & FO Stanley	Stanley Automobile Co.	Motor Vehicle	
659,991	29,922	12/29/1899	10/16/1900	FE & FO Stanley	Locomobile Co. of America	Steam Generator	
678,911	3,324	01/30/1900	07/23/1901	FE & FO Stanley		Steam-Generating Apparatus	
none awarded	4,007	[02]/xx/1900	na	FE & FO Stanley			Cited in 657,711
678,912	5,607	02/17/1900	07/23/1901	FE & FO Stanley		Steam-Generating Apparatus	
659,992	8,936	03/16/1900	10/16/1900	FE Stanley	Locomobile Co. of America	Vapor Burner for Steam Generators	
672,337	32,306	10/06/1900	04/16/1901	FE Stanley	1/2 to FO Stanley	Cross Head	
675,421	49,610	03/12/1901	06/04/1901	FO Stanley	1/2 to FE Stanley	Motor Vehicle	
737,517	65,474	06/21/1901	08/25/1903	FE Stanley	1/2 to FO Stanley	Boiler	
750,410	69,567	07/24/1901	01/26/1904	FE & FO Stanley		Vapor-Burner	

Table 2: Stanley Automotive Patents by Application Date, cont.

Patent No.	Serial No.	Date of Application	Date of Award	Applicant/Grantee	Assignee	Title	Remarks
737,879	81,622	11/08/1901	09/01/1903	FE & FO Stanley		Means for Volatizing Gasolene	
733,088	128,648	10/24/1902	07/07/1903	FE & FO Stanley		Steam-Superheater	
722,330	128,726	10/25/1902	03/10/1903	FO Stanley		Low Water Alarm for Steam Boilers	
728,512	128,747	10/25/1902	05/19/1903	FE Stanley		Water-Level Indicator	
893,668	129,136	10/28/1902	07/21/1908	FE & FO Stanley	Stanley Motor Carriage Co.	Burner for Steam-Generators	
730,307	130,147	11/05/1902	06/09/1903	FE Stanley		Steam Motor-Vehicle	
788,610	141,176	01/30/1903	08/22/1905	FE Stanley		Engine	
761,329	141,177	01/30/1903	05/31/1904	FE Stanley		Brake Device for Motor-Vehicles	
797,623	180,411	11/09/1903	08/22/1905	FE Stanley		Vapor-Burner	
1,168,229	384,377	07/18/1907	01/11/1916	FE Stanley	Stanley Motor Carriage Co.	Water-Level Indicator and Automatic Feed-Water and Fuel Controlling Device for Steam-Boilers	
1,123,611	384,378	07/18/1907	01/05/1915	FE Stanley		Water-Level Indicator	
1,200,666	5,953	02/03/1915	10/10/1916	FE & CF Stanley		Method of Constructing a Boiler	
1,342,606	271,802	01/18/1919	06/08/1920	FO Stanley	Unit Railway Car Co.	Steam-Boiler	

Table 3: Stanley Patent Date Plates

Compiled by Robert E. Wilhelm, Jr. and H. James Merrick

Patent Number	Date Issued	Patent Title	Inventor	Application Date	Serial Number	Assigned To (according to patent)	Notes	Class
634,642	10/10/1899	Hydrocarbon Burner	Henry Howard	3/28/1898	675,413		Purchased by F.E. Stanley.	236/26E; 126/283; 236/26R
	10/10/1899	2nd date on some patent plates						
672,337	4/16/1901	Cross Head	Francis Edgar Stanley	10/6/1900	32,306	1/2 to Freelan Oscar Stanley	Referred to by patent 788,610.	384/11
675,421	6/4/1901	Motor Vehicle	Freelan Oscar Stanley	3/2/1901	49,610	1/2 to Francis Edgar Stanley		180/63
678,911	7/23/1901	Steam Generating Apparatus [Superheater]	Francis Edgar Stanley Freelan Oscar Stanley	1/30/1900	3,324		The Stanleys had two patents issued on 7/23/1901. This patent would have applied to their cars.	122/467
683,673	10/1/1901	Underframe for Automobiles	Harry M. Wells	1/12/1901	42,982	Locomobile	Purchased by F.E. Stanley. Referred to by patents 657,711 & 637,176.	280/80.1
722,330	3/10/1903	Low Water Alarm For Steam Boilers	Freelan Oscar Stanley	10/25/1902	128,726		Referred to by patent 657,711.	122/504.1; 122/504
(725,xxx est.)	4/14/1903	Date on patent plate					Estimated patent number based on issue dates.	
728,512	5/19/1903	Water Level Indicator	Francis Edgar Stanley	10/25/1902	128,747			73/321
730,307	6/9/1903	Steam Motor Vehicle [engine on axle & housing]	Francis Edgar Stanley	11/5/1902	130,147			180/56, 74/606R, 74/607, 180/298

Table 3: Stanley Patent Date Plates, cont.

Patent Number	Date Issued	Patent Title	Inventor	Application Date	Serial Number	Assigned To (according to patent)	Notes	Class
733,088	7/7/1903	Steam Superheater	Francis Edgar Stanley Freelan Oscar Stanley	10/24/1902	128,648			122/467
735,021	7/28/1903	Steam Generator <i>[burner for vaporizing fuel from steam]</i>	Francis Edgar Stanley Freelan Oscar Stanley	12/6/1898	698,448	Stanley Automobile Company	Refers to patents 661,561 & 637,176. Referred to by patent 657,711.	122/23, 431/161
737,517	8/25/1903	Boiler <i>[boiler construction]</i>	Francis Edgar Stanley	6/21/1901	65,474	1/2 to Freelan Oscar Stanley		122/115
737,879	9/1/1903	Means for Volatilizing Gasolene	Francis Edgar Stanley Freelan Oscar Stanley	11/8/1901	81,622			122/115, 431/161
(737,xxx est)	9/1/1903	Date on patent plate <i>[Possibly Rollin H. White patent date]</i>						
740,895	10/6/1903	Vehicle Body	Charles J. Moore	12/8/1902	134,330	Locomobile	Purchased by F.E. Stanley.	296/66
740,896	10/6/1903	Motor Vehicle	John H. MacAlman	11/23/1901	83,362	Locomobile	Purchased by F.E. Stanley.	296/66
740,897	10/6/1903	Automobile Body	John H. MacAlman	2/24/1902	95,231	Locomobile	Purchased by F.E. Stanley. References Application Serial Number 83,362, filed on 11/23/1901-MacAlman.	296/65.01
750,410	1/26/1904	Vapor Burner <i>[pilot light]</i>	Francis Edgar Stanley Freelan Oscar Stanley	7/24/1901	69,567			431/232

Appendix G—Stanley Patent Information

Table 3: Stanley Patent Date Plates, cont.

Patent Number	Date Issued	Patent Title	Inventor	Application Date	Serial Number	Assigned To (according to patent)	Notes	Class
761,329	5/31/1904	Brake device for motor vehicles <i>[brake on axle]</i>	Francis Edgar Stanley	1/30/1903	141,177			188/77R
777,578	12/13/1904	Hydrocarbon Burner	George E. Whitney	2/20/1899	706,253	Whitney Motor Wagon Company	Purchased by F.E. Stanley Referred to by Patent 933,684.	122/23; 137/614.19
(779,xxx est.)	1/10/1905	Two dates on patent plate <i>[One date may be Charles E Foster patent]</i>					Estimated patent number based on issue dates.	
788,610	5/2/1905	Engine	Francis Edgar Stanley	1/30/1903	141,176			92/147, 74/607, 92/258

Table 4: Locomobile and Other Assigned Steam Patents

Compiled by Robert E. Wilhelm, Jr. and H. James Merrick

Patent Number	Date Issued	Patent Title	Inventor	Application Date	Serial Number	Assigned To	Notes	Class
657,711	9/11/1900	Motor Vehicle <i>[placing of parts]</i>	Francis Edgar Stanley Freelan Oscar Stanley	10/16/1899	733,802	Stanley Automobile Company	Referred to by patent 637,176 Refers to serial numbers 4,007, 698,448, 718,080, and 726,613.	122/3
658,114	9/18/1900	Flue Construction for Steam Carriages	Richard C. Mudge	4/30/1900	14,792	Locomobile		122/3
659,991	10/16/1900	Steam Generator <i>[boiler]</i>	Francis Edgar Stanley Freelan Oscar Stanley	9/13/1900	29,922	Locomobile	Originally applied for on 12/29/1899.	122/3
659,992	10/16/1900	Vapor Burner for Steam Generators	Francis Edgar Stanley	3/16/1900	8,936	Locomobile		122/23, 431/161
661,508	11/13/1900	Running Gear for Vehicles	Charles T. Fletcher	3/10/1900	8,211	Locomobile		280/141
661,561	11/13/1900	Tubular Steam Boiler	Francis Edgar Stanley Freelan Oscar Stanley	5/24/1899	718,082	Stanley Automobile Company	Referred to by patent 735,021.	122/115, 165/172
663,836	12/11/1900	Running Gear for Vehicles	Francis Edgar Stanley Freelan Oscar Stanley	8/8/1899	726,613	Mesne to Stanley Automobile Company	Referred to by patent 657,711.	280/124.171, 180/350, 280/124.156, 280/141, 280/798, 301/132
669,779	3/12/1901	Steam Engine	Charles T. Fletcher	4/25/1900	14,207	Locomobile		417/401, 417/567
671,771	4/9/1901	Tool Carrier for Vehicles	George A. Macker	6/21/1900	21,090	Locomobile		224/543, 224/547, 224/563, 224/568, 296/37.15, 296/140, 297/188.12

Table 4: Locomobile and Other Assigned Steam Patents, cont.

Patent Number	Date Issued	Patent Title	Inventor	Application Date	Serial Number	Assigned To	Notes	Class
671,782	4/9/1901	Tube Sheet for Boilers	John C. Speirs	2/24/1900	6,402	Locomobile		122/512
671,783	4/9/1901	Steam Engine	John C. Speirs	5/7/1900	15,723	Locomobile		91/530
671,857	4/9/1901	Filling Recepticle for Liquids	Joseph Devantery	3/15/1900	8,751	Locomobile		222/39, 222/184, 222/468, 222/510, 222/538
671,858	4/9/1901	Water Gage Glass	Joseph Devantery	3/24/1900	10,005	Locomobile		73/319
677,776	7/2/1901	Pump	Joseph Devantery	5/12/1900	16,457	Locomobile		417/568, 137/514.5
677,875	7/9/1901	Engine Protector	George A. Macker	5/2/1900	15,191	Locomobile		180/69.2
677,899	7/9/1901	Hydrocarbon Burner	John C. Speirs	2/24/1900	6,401	Locomobile		239/424.5, 239/560
677,968	7/9/1901	Compensating Gear for Vehicles	Charles T. Fletcher	6/14/1900	20,324	Locomobile		475/252, 475/253
683,673	10/1/1901	Underframe for Automobiles	Harry M Wells	1/12/1901	42,982	Locomobile	Purchased by F.E. Stanley. Referred to by patents 657,711 & 637,176	280/80.1
685,230	10/22/1901	Hydrocarbon Burner	John C. Speirs	8/17/1900	27,169	Locomobile	Refers to Stanley patent 637,137 which is not a Stanley patent; probably meant to reference Stanley patent 637,176. Refers to patent application 6,401 dated 2/24/1900 (patent 677,899).	239/288.5, 239/425.5, 239/557, 431/346
686,269	11/12/1901	Boiler Tube	Joseph Devantery	1/30/1901	45,311	Locomobile		285/19, 126/318

Table 4: Locomobile and Other Assigned Steam Patents, cont.

Patent Number	Date Issued	Patent Title	Inventor	Application Date	Serial Number	Assigned To	Notes	Class
705,824	7/29/1902	Automobile	Samuel T. Davis Jr	2/3/1902	93,162	Locomobile		180/303, 180/90,280/834
711,441	10/14/1902	Motor Vehicle Frame	Andrew L. Riker	7/19/1902	116,214	Locomobile		280/800, 180/311
715,867	12/16/1902	Frame for Steam Engines	George H. Reynolds	6/17/1901	64,921	Locomobile		417/343
735,021	7/28/1903	Steam Generator <i>[burner for vaporizing fuel from steam]</i>	Francis Edgar Stanley Freelan Oscar Stanley	12/6/1898	698,448	Stanley Automobile Company	Refers to patents 661,561 & 637,176. Referred to by patent 657,711.	122/23, 431/161
740,895	10/6/1903	Vehicle Body	Charles J. Moore	12/8/1902	134,330	Locomobile	Purchased by F.E. Stanley	296/66
740,896	10/6/1903	Motor Vehicle	John H. MacAlman	11/23/1901	83,362	Locomobile	Purchased by F.E. Stanley.	296/66
740,897	10/6/1903	Automobile Body	John H. MacAlman	2/24/1902	95,231	Locomobile	Purchased by F.E. Stanley References Application 83,362; 11/23/1901; MacAlman	296/65.01
777,578	12/13/1904	Hydrocarbon Burner	George E. Whitney	2/20/1899	706,253	Whitney Motor Wagon Company	Purchased by F.E. Stanley Referred to by Patent 933,684.	122/23; 137/614.19
859,159	7/2/1907	Automatic Multiple Oiler for Motor Vehicles	George E. Whitney	12/4/1906	346,338	Mesne to Stanley Motor Carriage Company	Originally applied for on 10/6/1902.	184/6
860,174	7/16/1907	Engine	George E. Whitney	8/28/1902	121,294	Mesne to Stanley Motor Carriage Company	Refers to patent 699,995.	384/11
860,716	7/23/1907	Liquid Fuel Feeding System	George E. Whitney	4/10/1902	102,259	Mesne to Stanley Motor Carriage Company		60/668, 137/565.17

Table 4: Locomobile and Other Assigned Steam Patents, cont.

Patent Number	Date Issued	Patent Title	Inventor	Application Date	Serial Number	Assigned To	Notes	Class
860,717	7/23/1907	Boiler Safety Device	George E. Whitney	12/19/1906	348,625	Mesne to Stanley Motor Carriage Company	Continuation of Application Serial Number 171,059 filed on 8/28/1903.	122/504.3
868,012	10/15/1907	Flash Boiler	Andrew L. Riker	1/5/1903	137,785	Stanley Motor Carriage Company		122/250R
890,742	6/16/1908	Liquid-Gage	George E. Whitney	7/26/1902	117,107	Mesne to Stanley Motor Carriage Company		73/327; 73/330
892,569	7/7/1908	Fuel Burning Apparatus for Motor Vehicles	George E. Whitney	2/18/1901	47,723	Mesne to Stanley Motor Carriage Company	Refers to Application Serial Number 61,012, filed on 5/20/1901.	431/232; 137,877
893,668	7/21/1908	Burner for Steam Generators	Francis Edgar Stanley Freelan Oscar Stanley	10/28/1902	129,136	Stanley Motor Carriage Company		431/245
897,202	8/25/1908	Hydrocarbon Burner	Burton C. Hamilton	11/5/1901	81,274	Mesne to Stanley Motor Carriage Company	Refers by name to Stanley Patent 637,176 dated 11/14/1899.	431/209
907,209	12/22/1908	Safety Device and Indicator for Steam Boilers	George E. Whitney	12/11/1899	739,911	Mesne to Stanley Motor Carriage Company		122/504.3, 122/504, 122/504.1, 137/74, 137/315.01, 137/557
922,741	5/25/1909	Exhaust Dissipating Apparatus for Motor Vehicles	George E. Whitney	12/1/1899	738,781	Mesne to Stanley Motor Carriage Company		110/150

Table 4: Locomobile and Other Assigned Steam Patents, cont.

Patent Number	Date Issued	Patent Title	Inventor	Application Date	Serial Number	Assigned To	Notes	Class
933,684	9/7/1909	Hydrocarbon Burner	George E. Whitney	8/9/1900	26,432	Mesne to Stanley Motor Carriage Company	Refers to Patent 601,218 dated 3/22/1898 Refers to Application 706,253 filed 2/20/1899.	431/239, 431/231
1,168,229	1/11/1916	Water Level Indicator and automatic feed water and fuel controlling device for steam boilers	Francis Edgar Stanley	7/18/1907	384,377	Stanley Motor Carriage Company		122/448.1, 122/451.2, 236/32, 236/99R
1,302,505	5/6/1919	Apparatus for Utilizing Liquid Fuels <i>[electric pilot igniter]</i>	Charles E. Broad	9/1/1917	189,373	Stanley Motor Carriage Company		431/208, 431/245
1,308,620	7/1/1919	Water-level Indicator <i>[kidney style]</i>	Charles E. Broad	12/24/17	208,552	Stanley Motor Carriage Company		
1,342,606	6/8/1920	Steam Boiler	Freelan Oscar Stanley	1/18/1919	271,802	Unit Railway Car Company		122/476, 122/278, 122/279, 122/281
1,364,178	1/4/1921	Steam Generating Apparatus	Charles E. Broad	12/24/1917	203,551	Stanley Motor Carriage Company		122/481
1,681,452	8/21/1928	Water Level Indicator	Raymond E. White	6/5/1925	34,597	Steam Vehicle Corporation of America		122/451.1, 122/504.2
1,750,980	3/18/1930	Boiler Feed Pump	Raymond E. White	9/4/1924	735,891	Steam Vehicle Corporation of America		60/659

Table 5: Patents Possibly Related to Stanley Motor Carriage Company

compiled by Robert E. Wilhelm, Jr. and H. James Merrick

Patent Number	Date Issued	Patent Title	Inventor	Application Date	Serial Number	Assigned To (according to patent)	Notes	Class
601,218	3/22/1898	Engine	George E. Whitney	3/18/1897	628,169	Whitney Motor Wagon Company	Patent not used by Stanley Motor Carriage Company but referred to by patent 933,684 which was being used by Stanley Motor Carriage Company.	60/508, 92/144, 251/357
699,995	5/13/1902	Engine	George E. Whitney	1/13/1902	89,490	Whitney Motor Wagon Company	Patent not used by Stanly Motor Carriage Company but referred to by patent 860,174 which was being used by Stanley Motor Carriage Company.	384/11, 74/44, 403/150
737,984	9/1/1903	Water Regulator	Rollin H. White	7/26/1902	117,080	White Sewing Machine Company	Feed water regulator for flash-type boiler. Design is very similar to Stanley Steam Automatic.	251/61.4; 92/95
737,985	9/1/1903	Feed-water Regulator	Rollin H. White	5/9/1903	156,353	White Sewing Machine Company	Improvement on 737,984.	251/58; 92/95; 122/DIG14
779,418	1/10/1905	Motor Vehicle	Charles E. Foster	7/5/1902	114,492		Boiler in front of the operator; steam blower in exhaust; nozzle cleaning wires.	180/303; 180/310
860,614	7/16/1907	Motor Vehicle	George E. Whitney	10/10/1906	338,832		Continuation of Application Serial Number 68,732 filed on 7/18/1901.	188/18R, 188/16, 475/900
948,373	2/8/1910	Tubular Steam Boiler	Sterling Elliott	2/5/1908	414,292			122/115, 165/172