

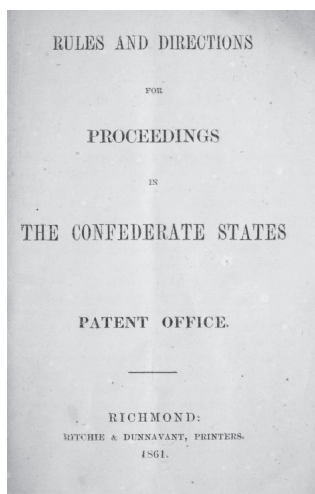
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The Confederate Patent Office – Rufus R. Rhodes, Chief Clerk

by Robert Gunderman, PE and John Hammond, PE

The History

While much has been written about the Civil War and the Confederate States of America (and of recent some would like to forget or rewrite its history), the Confederate Patent Office has received very little attention; so little in fact that many are not aware it ever existed. On March 4, 1861, the Provisional Congress of the Confederate States authorized the filing of patent specifications, and on March 11, 1861 the Confederate Constitution provided for the granting of patents. The Confederate Patent Office closed permanently on May 5, 1865 following Lee's surrender at Appomattox on the preceding April 9th. During its brief existence, 266 patents were issued, although some historians dispute this number, claiming there were a few more patents issued in the first months of 1865. By comparison, in that same period of time, the United States Patent Office issued 16,051 patents. By all rights, the Confederate Patent Office was tiny. The CPO was established in Richmond, Virginia on the third floor of the Mechanics Institute over the Department of the Confederate Navy. In that office, business was conducted and patent models were proudly displayed in glass cases.



The People

Rufus R. Rhodes of Mississippi, at the time a member of the Board of Appeals at the United States Patent Office, promptly resigned his post at the United States Patent Office after the election of Abraham Lincoln. In a verbose and eloquent letter of resignation, Rhodes cited philosophical differences as the reason for his resignation. For those interested, his letter can be found with a quick on-line search. It would certainly make for an interesting resignation letter to an employer in today's world. Rhodes became the first and only commissioner of the Confederate Patent Office, and was responsible for writing the *Rules And Directions For Proceedings in The Confederate States Patent Office*, published in 1861. This entire book has been digitally preserved by Duke University Library.

Who Could Apply for a Patent¹

1. Any citizen of the Confederate States, or alien, provided the government of the latter has recognized the independence of the Confederate States and is at the time in amity with them, may obtain a patent for any invention or improvement made by him that is new and useful.

The Inventors

A list of the patents issued by the Confederate Patent Office gives the reader a sense of what was important to the confederate inventor during that time in history. The first patent was issued to James H. Van Houten of Savannah, Georgia on August 1, 1861 for a Breech-Loading Gun.

Patent Number 100 was issued to John Mercer Brooke for the iron clad confederate ship the *CSS Virginia*, better known by her former name, the *Merrimac*. (The confederacy raised the *Merrimac* to create the iron clad warship the *CSS Virginia*). Clearly most, but not all, inventions were focused on implements to help win the war.

There were many interesting patents issued by the CPO, including a patent for a process of reproducing maps by photography, the Winans Steam Gun that could throw 200 balls a minute a distance of 2 miles, a bomb disguised to look like a lump of coal (for placing in the coal bins of Federal Naval Ships), electric torpedos, and even one of the first patents related to submarines (the "Hunley submarine").

The End

Toward the end of the war, as Richmond was being evacuated by Confederate troops, a fire was started by the Confederacy to prevent the taking of supplies by the approaching Union troops. The fire quickly spread, burning much of Richmond including the patent office building. The patent models and all records were destroyed, although some believe that various records were taken before the fire. Many years later several printed records were later found and delivered to the Museum of the Confederacy in Richmond.

The full text, description and drawings of these lost confederate patents, however, is gone forever, along with their supporting physical patent models and examination proceedings (known today as prosecution history). Who knows what secrets those long lost patents may hold, or the stories of the inventors behind each of them.

After the end of the Confederate Patent Office and the fall of the Confederacy, Rufus Rhodes moved to New Orleans and opened a practice as "an attorney at law and solicitor of patents." He died in 1870 at the early age of 52.

1 From Rules And Directions For Proceedings in The Confederate States Patent Office, Ritchie & Dunnivant, Printers, Richmond VA 1861.

Authors Robert D. Gunderman P.E. (Patent Technologies, LLC www.patenttechnologies.com) and John M. Hammond P.E. (Patent Innovations, LLC www.patent-innovations.com) are both registered patent agents and licensed professional engineers. Copyright 2015 Robert Gunderman, Jr. and John Hammond



Note: This short article is intended only to provide cursory background information, and is not intended to be legal advice. No client relationship with the authors is in any way established by this article.

GRAPHIC CREDIT: The Seal of the Patent Office of the Confederate States of America. Cover of the *Rules and Directions for Proceedings in The Confederate States Patent Office, 1861*. -All images are in the public domain-

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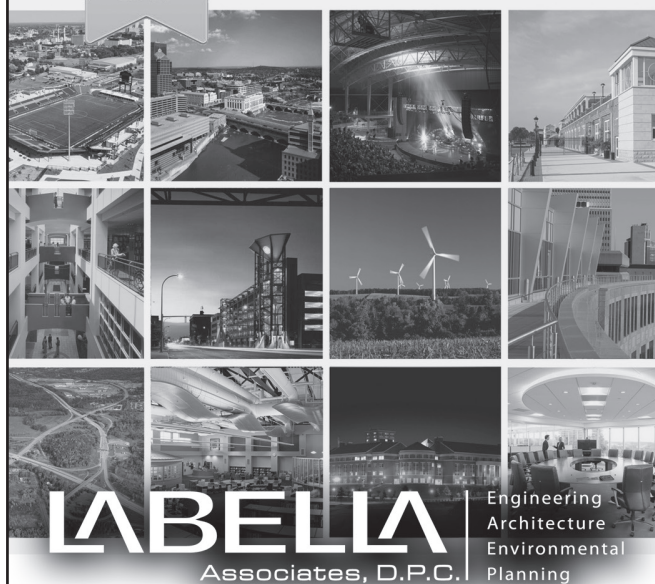
List of Confederate Patents:					
1	08/01/1861	J.H. Van Houten of Savannah, GA for Breech Loading Gun	62	01/09/1862	R.P. Moore and N. Thompson of Box Springs, GA for Mosquito and Fly Brush Machine
2	08/01/1861	Charles E. Brown of Staunton, VA for Stirrups	63	01/09/1862	A.P. (*A.R.) Routh of Somerset, VA for Seed Planter
3	08/05/1861	George B. Sloat of Richmond, VA for Sewing Machine Stand, Design	64	01/09/1862	John B. Wand of Memphis, TN for Waterproof Cloth
4	08/05/1861	George B. Sloat of Richmond, VA for Work Box for Sewing Machine, Design	65	01/20/1862	G.W. Dolbey of Carrollton, MS for Bellows
5	08/06/1861	R.W. Habersham of Beaufort, SC for Sabre Lance	66	01/29/1862	John Wells of Holly Springs, MS for Cotton Press
6	08/08/1861	James W. Frazier of Frazierville, SC for Wheels for Steamboats	67	01/31/1862	James Peeler of Bartow, GA for Ploughs
7	08/07/1861	John M. Walden of Fort Valley, GA for Switch for Railroads	68	02/01/1862	M.G. (*G.M.) Rhodes and A. Bingham of Talladega, AL for Wooden Bottomed Shoes
8	08/10/1861	Phidello Hall of Springfield, TX for Automatic Breech Loading Gun	69	02/03/1862	G.W. Dolbey of Carrollton (*Carrollton), MS for Machine for Shrinking Wagon Tires
9	08/12/1861	Thomas W. Cofer of Portsmouth, VA for Revolving Pistol	70	01/07/1862	R. Archer of Richmond, VA for Percussion Fuse
10	08/13/1861	John D. Evans of Pleasant Hill, GA for Plough	71	02/05/1862	J.F. Finger of Marion C.H., SC (*VA) for Portable Saw Mill
11	08/15/1861	Armand Preat of Gravel Hill, VA for Lance or Pike, Attaching to Guns	72	02/05/1862	John Dove of Lauderdale (*Lunderdale) Sta., MS for Cotton Cleaning Machine
12	08/17/1861	Frederick J. Gardner of Newbern, NC for Cartridges	73	02/05/1862	A. Knapp of Mobile, AL for Mosquito and Fly Repelling Machine
13	08/23/1861	J.R. (*P.R.) Clements of Eufala, AL for Water Wheels for Mills	74	02/15/1862	William Spillman of Mobile, AL for Machine for Making Lead Pipes and Bars
14	08/24/1861	Victor Armant of New Orleans, LA for Apparatus for Clarifying Sugar-Cane Juice	75	02/21/1862	Benjamin Dennis of Scottsdale, VA for Evaporator
15	08/26/1861	J.L. Jones of Tallyhoe, NC for Carriage Wheels	76	02/25/1862	John D. Love of Wilmington, NC for Combination Bedstead
16	08/27/1861	J.D. Stewart (*Steward) of Jackson, MS for Sash Fastener	77	02/28/1862	William Conner of Natchez, MS for Cotton Tie
17	08/29/1861	W.J. Cheshire of Colquitt, GA for Plough	78	02/28/1862	Abraham Hagar of New Orleans, LA for Bagasse Furnace
18	09/02/1861	E. Boyle, T. Gamble and E. Macfee of Richmond, VA for Sword Bayonet Attaching to Guns	79	03/11/1862	C.V. Littlepage of Austin, TX for Bullet Machine
19	09/03/1861	James H. Harkut (*Carcut) of Natchez, MS for Manufacture of Cannon	80	03/07/1862	B.C. Hattox of Little Rock, AR for Tanning
20	09/07/1861	J.S. Boothby of Savannah, GA for Tanning	81	03/14/1862	T.S. (*T.C.) Copes of New Orleans, LA for Cotton Tie
21	09/14/1861	James P. Rankin of Marion, NC for Breech Loading Gun	82	03/14/1862	Thomas Dale of Russellville, KY for Device for Replacing Locomotives on Railroad Cars
22	09/16/1861	Isaac Beirfield of Newberry C.H., SC for Tanning	83	03/21/1862	P.R. (*R.P.) Clements of Eufala, AL for Looms
23	09/19/1861	Ed. Gotthiell of New Orleans, LA for Percussion Fuses	84	03/21/1862	Charles E. Stuart, J.C. Owing and J.H.C. Taylor of Alexandria, VA for Instrument for Sighting Cannon
24	09/27/1861	E.T. Ligon of Demopolis, AL for Breech Loading Firearms	85	03/24/1862	Gardner Smith of New Orleans, LA for Rail for Railroad Cars (*Curves)
25	09/28/1861	Benjamin Winter of Buckingham C.H., VA for Winnowing Machine	86	03/25/1862	John M. Morehead of Greensboro, NC for Heating Apparatus
26	10/01/1861	John R. Spilman (*Spillman) of Warrenton, VA for Cartridge Paper	87	03/29/1862	John E. Pattison of Houma, LA for Apparatus for Clarifying Cane Juice
27	10/02/1861	John R. Spilman (*Spillman) of Warrenton, VA for Device for Making Cartridges	88	04/14/1862	Augustus McBurthe of Richmond, VA for Mode of Manufacturing Scabbards
28	10/02/1861	James S. Allums of Cussetta, GA for Cotton Presses	89	05/05/1862	William Hicks of Henderson, TX for Pumps
29	10/04/1861	James Lynch of Petersburg, VA for Cannon	90	05/10/1862	E.B. Stephens, assignor to J.A. Van Lew of Charleston, SC for Portable Flat Boat
30	10/07/1861	Arthur E. Hall of South Quay, VA for Camp Bedstead	91	05/10/1862	J.W. Howlett of Greensboro, NC for Breech Loading Fire Arms
31	10/10/1861	E.J. Park of Memphis, TN for Tanning	92	05/01/1862	C.A. McEvoy of Richmond, VA for Fuse
32	10/08/1861	E.N. Davis of Holly Springs, MS for Cotton Ties	93	05/23/1862	C.A. McEvoy of Richmond, VA for Fuse
33	10/11/1861	Robert C. Bernard of Rocky Mount, VA for Gate Fasteners	94	05/03/1862	W.P. Wyley (*W.B. Wyly) and A.M. Barbee of Savannah, GA for Railroad Car Oil Box
34	10/15/1861	Joseph Thomas of Batesville, AR for Bullet Moulds	95	06/15/1862	James I. Roberts of White Springs, FL for Plough
35	10/15/1861	Daniel Oswalt of Cubahatchie, AL for Breech Loading Cannon	96	05/31/1862	J.G. (*G.J.) Peterson of Marion, NC for Fire Arms
36	09/01/1861	(*09/10/1861) Alfred G. Hearn of Arkadelphia, AR for Machine for Measuring Distances	97	07/10/1862	Robert Buillock of South Mills, NC for Plough
37	10/24/1861	Hannibal S. Blood of New Orleans, LA for Switches and Turntables for Horse Railroads	98	07/22/1862	John Cowdon (*Cawdon) of New Orleans, LA for Vessel of War
38	10/29/1861	R.C. Howe of Richmond, VA for Camp Chest and Bedstead Combined	99	07/22/1862	J.A. (*S.A.) LeToudal of Mobile, AL for Tent
39	10/30/1861	Henry C. Goodrich of Augusta, GA for Camp Cot	100	07/29/1862	John M. Brooke of Richmond, VA for Ship of War
40	10/02/1861	John P. Gorman of Charlestown, VA for Cartridge Boxes	101	07/29/1862	James E. Watson of Petersburg, VA for Combined Knapsack and Tent
41	11/07/1861	William W. Rickenbacker of Beaufort, SC for Camp Chest and Bed Combined	102	07/31/1862	John Commins of Charleston, SC for Tanning
42	11/07/1861	Cornelius Cox of Cahaba, AL for Cotton Cleaner	103	08/01/1862	John Commins of Charleston, SC for Tanning Vat
43	11/11/1861	T.W. Moore of Person Co., NC for Plough	104	08/06/1862	William S. Morris, of Lynchburg, VA for Composition for Galvanic Batteries
44	11/11/1861	M.A. McLeod of Thibodaux, LA for Apparatus for Clarifying Sugar-Cane Juice	105	08/16/1862	J.M. Jackson of Columbus, MS for Chain Link
45	11/20/1861	George W. Peabody of Columbus, GA for Waterproof Composition	106	09/25/1862	Lucien Hopson of Lampassas, TX for Projectile
46	11/21/1861	R.W. Biggs of Jacksonville, FL for Plough	107	09/26/1862	John M. Brooke of Richmond, VA for Reversible Hook
47	11/22/1861	Andrew Day of Woodville, MS for Plough	108	09/27/1862	George Henry of Columbus, MS for Breech Loading Fire Arms
48	11/26/1861	John N. Gradick of Fayetteville, AL for Washing Machine	109	09/29/1862	J.A. LeToudal of Mobile, AL for Instrument for Leveling Cannon
49	07/23/1861	L.B. Woolfork of Goodlettsville, TN for Steam Plough	110	10/01/1862	Augustus McBurthe of Richmond, VA for Waterproof Cloth MS for Breech Loading Firearms
50	11/21/1861	John Schley of Savannah, GA for Horse Power	112	10/13/1862	William Spillman of Prattville, AL for Bullet Machine
51	11/27/1861	Columbus A. Rose of Columbia, AL for Hoes	113	10/11/1862	William S. Winfield of Springfield, TN for Projectile
52	11/27/1861	(*11/07/1861) B.B. & W.H. Stephens of Dallas, LA for Corn and Cottonstalk Cutter and Puller	114	10/15/1862	(*10/14/1862) James C. Patton of Petersburg, VA for Submarine Battery
53	12/06/1861	Louise Grady of Norfolk, VA for Washing Machine	115	10/17/1862	John Hollander of Sutherland Springs, TX for Composition for Toilet Soap
54	10/07/1861	John M. White of Citrouille, AL for Breech Loading Guns	116	10/17/1862	John Hollander of Sutherland Springs, TX for Compound for Expelling Cattle Worms
55	10/11/1861	Marcus A. Tarleton of New Orleans, LA for Cotton Ties	117	10/17/1862	John Hollander of Sutherland Springs, TX for Composition for Washing Soap
56	10/14/1861	Henry Domler of Wilmington, NC for Military Cap	118	10/24/1862	James H. Douthatt of Montgomery, VA for Machine for Making Shoe Pegs
57	10/31/1861	W.B. Martin of Fayetteville, TN for Sewing Machine	119	11/08/1862	(*11/05/1862) G.H. Whitescarver of Richmond, VA for Protractor
58	01/02/1862	(*01/21/1861) Carl Laquequist of Macon, GA for Breech Loading Guns			
59	01/04/1862	J.S. Peete of Tipton, TN for Cotton Ties			
60	01/07/1862	Jacob B. and William L. Platt of Augusta, GA for Camp Cots			
61	01/08/1862	J. Nichols and J. Bennett, assignors to F. Smith of Memphis, TN for Submarine Battery			

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Relationships. Resources. Results.

List of Confederate Patents, continued from page 11:

120	11/08/1862	(*11/05/1862) G.H. Whitescarver of Richmond, VA for Surveying Instruments
121	11/08/1862	(*11/05/1862) D.R. Williams of Richmond, VA for Breech Loading Cannon
122	11/10/1862	Charles Mahon of Macon, GA for Postage Stamp Case
123	11/15/1862	C.A. McEvoy of Richmond, VA for Fuse
124	11/13/1862	J.E. Jenkins of Pelahatchie, MS for Plough
125	11/20/1862	M. Bridges of Memphis, TN for Breech Loading Cannon
126	12/7/1862	Wiley Futrell of Oxford, GA for Rotary Plough
127	12/08/1862	J.G. Wire of New Orleans, LA for Machine for Operating Submarine Batteries
128	12/10/1862	James A. Cameron of Canton, MS for Varnish
129	12/11/1862	Nathaniel Nuckolls of Russell Co., AL for Army Canteen
130	12/30/1862	E.S. Collins of Aspinwall, VA for Wooden Soled Shoe
131	12/19/1862	John Henson of Fork Union, VA for Hay Press
132	12/30/1862	Joseph A. Yates of Charleston, SC for Machinery for Traversing Guns
133	01/03/1863	Alonzo C. Chinn of Mobile, AL for Projectile
134	01/07/1863	Henry T. Beard of Emery, MS for Composition for Finishing Leather
135	01/07/1863	C.A. McEvoy of Richmond, VA for Fuze
136	01/15/1863	George H. Lehner of Richmond, VA for Clamps for Lathes
137	01/15/1863	George H. Lehner of Richmond, VA for Turning Lathe
138	01/15/1863	George H. Lehner of Richmond, VA for Lathe Tool
139	01/15/1863	Henry G. Street of Warren Co., MS for Cotton Scraper and Plough
140	01/27/1863	William S. Watkins of Houston, TX for Wind Mill
141	01/15/1863	Lawson G. Peel of Preston, GA for Plough
142	01/20/1863	G.S. Newman, assignor to A.P. Rount (*Rolett), of Somerset, VA for Plough
143	01/26/1863	R.H. Barrett of Murfreesboro, NC for Projectile
144	01/26/1863	Thomas Ashcroft of Talledega, AL for Machine for Making Combs
145	02/02/1863	Charles H. Winston of Richmond, VA for Method of Constructing Sulphuric Acid Chamber
146	02/02/1863	B.H. Washington of Hannibal, MO for Lamp Burner
147	02/14/1863	Henry F. Cromwell of Cynthiana, KY for Gang Plough
148	02/14/1863	J.H. Tarply of Greensboro, NC for Breech Loading Fire Arms
149	02/18/1863	D.W. Hughes of Don Juan, AZ for Breech Plug
150	03/10/1863	J.A. Park of Sequin, TX for Tanning
151	03/10/1863	H. Leyden (*A. Legden) of Atlanta, GA for Revolving Fire Arms
152	03/13/1863	E.S. Cook of Laurel Grove, VA for Plough
153	03/13/1863	Felix Walker of New Orleans, LA for Mode of Packing Cotton
154	03/20/1863	N.T. Read of Danville, VA for Breech Loading Fire Arms
155	03/23/1863	James E. Hanger of Staunton, VA for Artificial Limb
156	03/26/1863	George H. Lehner of Richmond, VA for Sewing Machine Shuttle
157	03/31/1863	W.D. Mason of Jarratt's Depot, VA for Water Wheel
158	04/06/1863	George H. Lenher of Richmond, VA for Lathe
159	04/16/1863	O.L. Bayley (*Bailey) of Dallas, TX for Gang Ploughs
160	04/15/1863	Thomas H. Bacon of Hannibal, MO for Projectile
161	04/15/1863	Ellison Yerby of Richmond, VA for Machine for Filling Cartridges
162	04/18/1863	John J. Daly of New Orleans, LA for Instrument for Measuring Distances
163	04/18/1863	C.W. Alexander of Moorfield, VA for Breech Loading Fire Arms
164	04/20/1863	John B. Norris of Clark Co., VA for Fire Tong
165	05/01/1863	T.L. Jones of Natchez, MS for Cotton Tie
166	05/01/1863	T.L. Jones of Natchez, MS for Cotton Tie
167	05/01/1863	(*05/21/1863) Robert Creuzbaur of Travis Co., TX for Wood Soled Shoe
168	05/04/1863	F.D. Lee of Charleston, SC for Spar Torpedo
169	05/06/1863	R.S. Dunning of Atlanta, GA for Machine for Cutting Irregular Forms
171	05/20/1863	(*05/21/1863) Sylvester L. Burford of Lynchburg, VA for Wooden Shoe Sole
172	05/25/1863	Alfred L. Bowen of Winchester, VA for Button Machine
173	05/25/1863	F.F. Taber of Atlanta, GA for Process of Producing Stearine from Tallow
174	05/25/1863	William Le Roy Browne of Ivy Depot, VA for Fuze
175	05/26/1863	Charles C. Bier of New Orleans, LA for Cotton Tie
176	06/05/1863	Isidor P. Girardy of Augusta, GA for Fuze
177	06/05/1863	A.C. Elder of Winnsboro, SC for Churn
178	06/10/1863	Asa George of Charlotte, NC for Revolving Fire Arm
179	06/18/1863	S.A. Hinkel of Lewisburg, VA for Tanning
180	06/22/1863	William H. Wilson of Staunton, VA for Match Cutting Machine
181	07/10/1863	Benjamin M. Cook of Kinston, NC for Explosive Apparatus
182	07/15/1863	Albert Bloomer, assignor to W.N. Smith of Richmond, VA for Fuze Gauge and Cutter
183	07/15/1863	John Stillwell of Griffin, GA for Churn
184	07/22/1863	Charles Knowlton of Talboton, GA for Machine for Cutting Shoe Pegs
185	07/22/1863	Phillip E. Love of Augusta, GA for Projectile
186	07/25/1863	Miles Waterhouse and William Whealan (*Whealan) of Charlotte, NC for Varnish

Continued on page 15

List of Confederate Patents, continued:

187	08/05/1863	A. Barbarin of New Orleans, LA for Torpedo
188	08/05/1863	(*08/10/1863) Homer Holland of Charlotte, NC for Process of Producing Copperas
189	08/10/1863	Hughes, Pendergrass and Snow of Monroe, GA for Loom
190	08/10/1863	Martin B. Tyler of Richmond, VA for Hominy Mill
191	08/22/1863	H. Conner of Mobile, AL for Projectile
192	08/22/1863	H. Conner of Mobile, AL for Breech Loading Cannon
193	08/25/1863	A.F. Volck of Nuremburg, Bavaria for Bust of Lt. Gen. T.J. Jackson, Design
194	08/25/1863	R.J. White and George Lehner of Richmond, VA for Bullet Machine
195	08/28/1863	Robert Creuzbaur (*Creugbaur) of Austin, TX for Wooden Sole Shoe
196	08/28/1863	Robert Creuzbaur (*Creugbaur) of Austin, TX for Half Wooden Sole Shoe
197	08/31/1863	Robert Creuzbaur (*Creugbaur) of Austin, TX for Torpedo
198	09/21/1863	Z. McDaniel of Glasgow, KY for Torpedo
199	09/10/1863	Thomas Morse of Richmond, VA for Breech Loading Firearm
200	09/15/1863	E.C. Singer of Port Lavaca, TX for Torpedo
201	08/18/1863	James E. Hanger of Staunton, VA for Artificial Leg
202	09/21/1863	Z. McDaniel of Glasgow, KY for Torpedo
203	09/24/1863	B.H. Washington of Hannibal, MO for Machine for Casting Friction Tubes
204	10/06/1863	James Peeler of Bartow, GA for Method of Repairing Cotton Cards
205	10/07/1863	William H. Hamilton of Mobile, AL for Candle Moulding Machine
206	10/10/1863	E.S. Alexander of Moorfield, VA for Spur
207	10/13/1863	George S. Smith of Keysville, VA for Loom
208	10/19/1863	Henry Fitzgerald of Norfolk, VA for Fertilizer
209	10/24/1863	W.N. (*W.H.) Smith of Richmond, VA for Cap Filling Machine
210	10/26/1863	Isaac Mitchell of Columbus, GA for Cotton Seed Huller
211	10/25/1863	(*10/28/1863) C. Williams of St. Louis, MO for Submarine Apparatus
212	10/29/1863	B.H. Washington of Hannibal, MO for Bullet Swaging Machine
213	10/31/1863	B.H. Washington of Hannibal, MO for Machine for Cutting and Serrating Friction Wire
214	11/05/1863	B.H. Washington of Hannibal, MO for Machine for Finishing Cannon
215	11/04/1863	E. Kempe, assignor to himself and Daniel Hagerty, of Richmond, VA for Grease Lamp
216	11/18/1863	B.H. Washington of Hannibal, MO for Automatic Lathe
217	11/27/1863	(*11/21/1863) Benjamin F. Holloway of Mobile, AL for Loom
218	11/23/1863	B.H. Washington of Hannibal, MO for Machine for Casting Cannon
219	11/24/1863	Louisiana Boykin of Glenville, AL for Mode of Preserving Meat
220	12/24/1863	(*12/14/1863) J.P. Shaw, assignor to W.T. Chaffee, of Richmond, VA for Horse Shoe Machine
221	12/29/1863	A.C. Jackson of Richmond, VA for Lubricating Compound
222	01/02/1864	C.F. Richbourg of Gadsden, SC for Manufacture of Bagging
223	01/06/1864	R.H.S. Thompson of New Orleans, LA for Projectile
224	01/21/1864	Harry A. Bennet of Mecklenburg C.H., VA for Churn Dasher
225	01/27/1864	John Scott of Ocala, FL for Truss
226	01/27/1864	John Scott of Ocala, FL for Projectile
227	02/05/1864	R.S. Sanxay and A. Gomert of Richmond, VA for Photographic Process for Duplicating Maps
228	02/08/1864	Thomas C. Brown of Ballsville, VA for Sugar Cane Crusher
229	02/10/1864	J.E. Garlington of Chambers C.H., AL for Water Boiler
230	02/13/1864	John R. Maben of Allen Creek, VA for Machine for Cutting Shoe Pegs
231	02/26/1864	C.E. Smart, Owings, and Taylor of Richmond, VA for Instruments for Fixing Sights to Cannon
232	02/29/1864	George W. Powell of Clay Hill, AL for Breech Loading Cannon
233	03/12/1864	J.E. Cargill of Columbus, GA for Ink Composition
234	03/16/1864	John H. and J.C. Carlisle of Ringwood, NC for Instrument for Crooking Card Teeth
235	03/29/1864	Y.A. Minnis of Franklinton, NC for Water Wheel
236	03/30/1864	J.C. Patton and E. Cuthbert of Petersburg, VA for Torpedoes
237	04/02/1864	M.L. Parry of Galveston, TX for Steam Condenser
238	04/07/1864	David S. Cordle of Richmond, VA for Chain Link
239	04/09/1864	J.E. Garlington of Chambers C.H., AL for Bridge
240	04/15/1864	J.D. Gresit of Urbana, VA for Instrument for Calculating Distances
241	04/18/1864	F.G. Smith of Columbia, TN for Sea-Going Vessel

Continued on page 16

Position Openings

Join the LeChase Team

Director of MEP & Controls Coordination

The Director of MEP & Controls Coordination is a full-time resource leading LeChase Construction's growing demand for increasingly sophisticated building mechanical/electrical/controls oversight activities during front-end pre-construction, design phases and construction project delivery. The position requires a seasoned specialist with experience in MEP & Controls approaches in design and implementation during construction.

Knowledge of design and construction delivery methods is important to be able to interpret critical project requirements early in a projects life cycle to assist in ensuring the project teams success through close-out. The Director shall possess specific knowledge and experience in mechanical equipment, controls & integration to successfully manage project installations, start-ups, TAB (testing & balancing), and Cx (commissioning) of complete and operating systems. It is desirable that the Director be a P.E. with design and construction background.

Qualifications:

1. Engineering Degree and P.E. Preferred. 10+ years on the job experience in design, and/or construction.
2. Knowledge of:
 - In-depth knowledge of the design and construction industry and the project delivery techniques
 - Must have an in-depth knowledge of design and construction documents
 - General understanding of Project Management & Construction
 - English usage, grammar, spelling, vocabulary, punctuation & technical writing
 - Basic knowledge of controls systems and how they interface with building HVAC systems and equipment

About LeChase:

LeChase Construction is a full-service firm with extensive experience and we pride ourselves on ensuring that our corporate culture; based on safety, quality and integrity, is evident from our office staff to each jobsite.

As a highly diversified construction management and general construction firm we have experience managing projects in many industry segments. LeChase aligns itself with customers who are looking for partnerships and long-term relationships. As evidence that we are "doing it right the first time," we have an impressive amount of repeat business alongside a growing client list.



Send resume & cover letter to:
jerold.boddy@lechase.com

www.lechase.com

Position Openings



COME GROW WITH US!

MRB Group Engineering, Architecture and Surveying, P.C. is currently recruiting for several positions to join our growing team in Rochester, New York including:

Civil Engineers: to plan, design, direct, oversee and execute civil engineering projects in our water/wastewater and site groups.

Team Leader/Project Manager: Candidate will be responsible for client and project development, client interaction, and client meetings. Licensure is required with a minimum of 10 years of experience.

MRB Group provides a comprehensive range of professional services to municipal, commercial, and not-for-profit clients in the following fields: civil, structural engineering; architecture; site development; GIS and mapping services; and municipal consulting. We have offices in Rochester, Watertown, Saratoga Springs, Seneca Falls, and Elmira, New York and Austin, Texas.
* Syracuse office opening soon *

Visit our website (www.mrbgroup.com) for additional information. Resumes can be sent directly to: resume@mrbgroup.com or mailed to: MRB Group, The Culver Road Armory, 145 Culver Road, Suite 160, Rochester, NY 14620.

MRB | group



List of Confederate Patents, continued from page 15:

242	04/20/1864	B.H. Washington of Hannibal, MO for Machine for Making Wood Joints
243	04/27/1864	J.B. Gayle of Larinburg, NC for Mode of Turning Eccentrics for Railroads
244	05/06/1864	John H. and J.C. Carlisle of Ringwood, NC for Instrument for Renovating Card Teeth
245	05/20/1864	A. Barbarin of New Orleans, LA for Torpedo
246	06/31/1864	A.D. McCoy of Livingston, AL for Combined Bed and Tent
247	01/04/1864	David Rawl of Lexington C.H., SC for Machine for Carding Cotton
248	07/11/1864	William Moon of Richmond, VA for Clock Torpedo
249	07/21/1864	James Price, assignor to J. and J.W. Tomkins of Tucker's Pond, SC for Tanning
250	08/11/1864	G.W. and J.H. Wells of Charlottesville, VA for Artificial Leg
251	07/12/1864	Anna Lewis, executrix of John Lewis, dec'd of Greensboro, NC for Machine for Ginning, Carding, and Spinning Cotton
252	08/16/1864	Albert Strasser of Montgomery, AL for Artificial Leg
253	08/25/1864	James D. Layton of Memphis, TN for Projectile
254	08/29/1864	B.H. Washington of Hannibal, MO for Stethoscopic Probe
255	09/06/1864	C. Williams of St. Louis, MO for Torpedo
256	09/07/1864	C. Williams of St. Louis, MO for Torpedo
257	10/05/1864	Richard M. Harvey of New Orleans, LA for Torpedo
258	10/06/1864	C. Williams of St. Louis, MO for Submarine Boat
259	10/25/1864	George W. Rains of Augusta, GA for Gunpowder Steaming Barrels
260	10/26/1864	J.C. Patton of Petersburg, VA for Torpedo
261	10/25/1864	C. Williams of St. Louis, MO for Submarine Boat
262	11/10/1864	D.M. Somers and H. Dabney of Lynchburg, VA for Projectile
263	11/16/1864	Thomas B. Taylor of Montgomery, AL for Machine for Making Cotton Rolls
264	11/22/1864	A.T. Purejoy of Forrestville, NC for Wooden Shoe Sole
265	11/23/1864	A.T. Purejoy of Forrestville, NC for Binding Last
266	10/17/1864	W.N. Smith of Richmond, VA for Percussion Cap Rammer

REISSUE

RE1 10/28/1863 C. Williams of St. Louis, MO for Submarine Apparatus

The Rochester Engineering Society relies on its many volunteers to keep us running. We continue to encourage you to join the RES and volunteer on our many committees. We need committee members for:

Membership Committee

Gala Committee (*Save the Date of Saturday, April 16, 2016 - we are working on details now for this most important fundraiser for the RES*)

Scholarship Committee

Financial Committee

"Rochester Engineer" Editorial Committee

Constitution & By-Laws Committee

Program Committee

Strategic Planning Committee, and many more...

We also need volunteers for the Tutoring Team, the E3 Fair, STEM Programs and the Explorer Post.

Please go to the RES Website (www.roceng.org) and sign up on the volunteer site run by Jon Kriegel.

We also have a **Director and Treasurer** Positions open on the BOD. [Can you help?](#)

Thank you to our many volunteers!