To matich

AMERICAN GAS-LIGHT JOURNAL,

DEVOTED TO

LIGHT, WATER-SUPPLY AND SEWERAGE.

VOL. III,

JULY 1, 1861, TO JUNE 30, 1862.

NEW YORK:

ROOMS OF THE AMERICAN GAS LIGHT JOURNAL,

No. 39 Nassau Street, cor. Liberty Street, opposite the Post-O.fice, N. Y

INDEX.

Banquet in a Sewer, 359. Accident, Terrible Colliery, in France, 147. Act, Sale of Gas in England, 25. for Inspection of Gas Meters in Massachusette, 41. Action of Gases and Vapors on Radiant Heat, On the, Advertisers, To Foreign and Domestic, 105. Advertisers, To Philadelphia, 25, 40, 66, 73. Administration, A Purified, 108. A Fish a Witness in a Court of Justice, 816. Agitation, Gus, in Scotland, 218. A Crown of Light, 816. Human Register in the Croton Office, 135. - Long Journey, 811. - New American Gas-Coal, 188. New Gas Coal, 124. New Anesthetic-Kerosolene, 73. New Electric Light, 168. Meter which Many Poets use Now-a-Days, 359. Patriotic Gas-Company, 108. Railway to the Oil Wells, 316, Sherry Cobbler in the Coton Reservoir, 118. Substitute for Lead Pipe, 119. Purified Administration, 103. - Rival of Gas, 348. Valuable Patent, 238. Wag of an Engineer, 156. Winter Supply of Coal, 185. Air Necessary to Combustion, 39. Air, Fresh, Importance of, 60. Aikin, Prof. and the Baltimore Gas-Light Co., 57. Albany, N. Y., Gas Explosion in, 187. Algeria, Artesian Wells in, 359. All Dark in Galveston, Texas, 141. American Gas-Light Companies, Tables of, 201. Mineral Oils, Paraffine and, 267. Gas-Coal, A New, 188. Gas-Light Journal in the Mediteranean, 187. Andrews, Prof. E. B., On geological relations and distribution of rock-oil, 69. Answers to Correspondents, 9, 25, 41, 57, 78, 89, 105, 121, 187, 158, 169, 185, 216, 288, 249, 268, 281, 297, 818, 829, 845, 360, Another £2.000 Wanted. Ancient Artesian Wells, 9. Anasthetic, A New, 78, Anti-Freezing Apparatus, Walton's, 184. Aniline, New use for, 287. Animals, Effects of Coal-Gas on, 281. Another Colliery Explosion, 815. An Act to Authorize the formation of Gas Companies, 186. Antisell, Dr., Removal of, 90. Apparatus, New for Naphthalizing Gas, 51. Apparatus for Tapping Gas-Mains, 169. Artesian Wells, Ancient, 9. Well of Passy, France, 27, 188. 29. Well at Fort McHenry, The, 141. Wells in Algeria, 359.

Artificial Light, New Bources of, 54.

Talbot, Esq., 26.

Artificial Light, Beserches on the Spectra of, by H. F.

Association, N. Y. State Gas-Light, 106. Asphaltem, Oll from, 188 Assessed Water-Rates, 329. Attack on Mr. Birkinbine, 120. Australian Coals, Indian and, 39. Australia, Gas in, 847. Australia, New Lighthouse in, 158. Australia, Water-Meters in, 183. Aurora, Ind., Water-Gas Co., 288. Authorities, Gas, Conflict of, in Sheffield, Eng., 87. Average Work of Cornish Pumping Engines, 28.

Baths, Turkish, 19, 57, 827.
Baltimore, Md., 25, 56, 267, 280. Baltimore Gas Inspector, The, 89. Report of Gas Inspector in, 85, 117. Gas-Light Co., The, and Prof. Aikin, 57, 89. Ballooning, Military, 147. History of, 228. Banquet in a Sewer, A, 359. Barracks and Hospitals, Report of Sanitary Commission on, 76. Belgium, Coal Trade of, 71. Bergen Iron Works, 115, 135. Berlin, Prussia, Water-Works, The, 124, Benzole as a Substitute for Turpentine, 141. Tracing Paper, 800. Benzine, Dangerous Character of, 196. Explosion of, 276 Bisulphide of Carbon in Coal Gas, 102, 122, Bituminized Gas Pipes, Patent, 221. Birkinbine, Mr., Attack on, 120. Blast Furnaces, On taking off the waste gas from, 57. Boilers, Steam, Water for, 85. Bowditch's, Mr., Purifying Process, 153. Boston, Mass., Gas Explosion in, 172. Boyden Premium, 829. Brooklyn, N. Y., Citizens' Gas Light Co. of, 263. Water-Works of 87, 221, 297, 832. Damage to Sewers in, 78. Explosion in the Gas-Works in, 75. Gas Explosion in, 847. Brookline, Mass., 268. Bridgeport, Conn., 27. Brighton, Eng., Gas Supply of, 27. Bridgeton, N. J., 60. British Museum; Opening of the, to the Public by Gas-Light, 75, 91. Bright Brigade, Charge of the, 108. British Cities, Water Supply of, 155. Patent Agonoy, 184. Guiana, Gas-Works in, 185. Provinces of North America, Tables of Gas-Light Companies in, 199. Provinces, Public Lighting in, 276. Brother Bull at his old Tricks, 812. Brown's Suspended Purchase, 237. Burning Fluid, New odorless, 29. Burning Oil Wells, 154. Burners, Different, Conflicting Results from, 172. Standard, 201.

Buffalo, N. Y., 128.

Builder, Pilleging the London, 137. Burlington, Vt., 27. Burning of a Coal-Oil Factory, 184. Bull, Brother, at his old Tricks, 81%. Bursting of a Reservoir, 359. Capacity of Cornish Engine, 23.

Capacious Well, 29.

Calcutta, Gas in, 7.

Sewage of, 124. Candles, Improvement in, 125. Canton, O., 125. Cambridge, Mass., 25. Camden, N. J., 60. Carbonic Oxide a Cause of Malaria, 227. Cannel Coal, Yield of, 267. Canada, Reduction in the Price of Gas in, 276. Coal Oil in, 283. West, Petròleum in, 288. West, Oil Wells in, 848, Oil Wells, 816. Canadian Petroleum, Its Value and Uses, 50%. California, Natural Oil and Gas in, 197. Carriage Lamp, Railway, 278. Carriage Lamps, 278. Carbonizer, Gwynne's Gas, 182. Carburetted Gas in London, 868 Carburation of Gas in London, 195. Careleamess of Gas Fitters, 876. Cartridges, Paraffin Oils for Lubricating, 58. Cast-Iron, Porosity of, 9, 869. Camp, Gas-Light ln, 276. Charlotte Town, Prince Edward's Island, 27, 28. Chandor's Gas Generator, 125. Charge of the Bright Brigade, 108. Charcoal, Sanitary Properties of, 104. Charcoal Filters, Sewer Deodorization by, 185. Chandeliers for the Armory of the 69th Regiment, 105. Charlestown, Mass., 215. Cheap Gas, Demand for, in Edinburgh, 9. Movement in Scotland, 71, 283, 875. Tubing Wanted, 124. Movement, The, 166. Cheshire, Eng., Tranmere Water-Works, 89. Chelses Water-Works, Eng., Filter of, 29. Chimney, Dithridge's Oval Lamp, 187. Church Gas-Works, 814. Chicago, Ill., 20. People's Gas-Light Co. of, 124, Cincinnati; O., 42. Water-Works of, 856. Civil Engineers, Institution of, of England, 106. Cities, Well Water in Large, 168. Gas in Large, 281. Citlzens, Brooklyn, N. Y., 283, 268. Clay Retorts, King Brothers', 8. Mr. J. C. Cresson's Opnion on, 377. in Germany, 168. Cleveland, O., 44. Coal, A New American Gas, 138. A Winter's Supply of, 185.
Compressed, 87.

Davy, Sir Humphery, Monument to, 217.

Davy Lamp, Improvement on, 172. Death of Robert Nichols, Esq., 248. Coal, Cost of, in Paris, 275. Explosion, Colliery, in England. 188. - Waste of, in Mining, 8.
- Fields of Pennsylvania, Result of 40 years workln a Kerosene Oil Works, 286. Death of a Celebrated Inventor, 852. of Portable Gas in Paris, 249. Decline in the Whaling Interest, 12. Kerosene Oil, in London, 249. Defalcation in the Milwaukee, Wis., Gas-Light Co., 119. Fire at an Oil Well, 260. Gas, On the Nature and Chemical Properties of, Demand for Cheap Gas in Edinburgh, 9. by Lewis Thompson, Esq., 90, 106. in the Gas-Works in Brooklyn, N. Y., 75. Gas, Sulphur in, 26. Design, The, of Drinking Fountains, 87. of Benzine, 276. of an Italian Countess, 281. Gas, Blaulphide of Carbon in, 102, 122. Description of Fish by Gas-Liquor, 187.

Description of a Gas Furnace for General Chemical Gas, 185. Explosions of Gas, To Guard against, 234. Use, 202. Explosiveness of Coal Olls, 186, 200. Mines, Electric Light in, 147. Detroit, Mich., Water-Works of, 4. Mines, The Orighn of, 855. Expense of Lighting Troy, N. Y., 878. Extinguisher of Fire, Water as an, 88. Mesers. Emanuel Turner & Co.s, 183, 216. 78, 345. Extension of Gas-Works in Doncaster, Eng., 187. Diathermanoy of Gases, 27. Oil Patent, Mr. Young's, 42. Oil Factory, Burning of a, 184. Diffusion of Gases, 342. Extension of the Fairmount Water-Works at Philadel-Oil la Canada, 288. Discovery by Spectral Analyses, 227. phia, 116. Oil Explosion at Bowanus, N. Y., 339. Discharge of Fluids, 29, Extraordinary Results from Water-Meters, 158. Oil Refineries, Danger of Fire in, 831. Dithridge's Oval Lamp Chimney, 137. European Gas Journals, 121. Oila, Petroleum or, 197. Eye-Sight, Gas-Light Not Injurious to, 267. Drain Pipe Sleepers, 131. Oils, Explosiveness of, 136, 200. Drinking Fountains, The Design of, 87. Hactories, Gas-Works in, 299. Drinking Fountains, 54. Origin of, 43. Doncaster, Eng., Extension of Gas-Works in, 137. Fairmonnt, The Turbine Water-wheels for, 74. Penalty for Using as a Fuel, 147. Product of Eastern Pennsylvania, 237. Dublin, The Sewage of, 124. Fairmount Water-Works of Philadelphia, Extension of, Sterling, 264, 297, 316, 329. Caunel, Yield of, 267. Duty of Pumping Engines, 382. Dyes, More New, 40. Filter of the Chelsea Water-works, Eng., 29. Filters, Charcoal, Sewer deodortzation by, 135. Tar, Gas from Superheated Steam and, 69. Early Researches on the Spectra of Artificial Light by H. F. Talbot, Esq., 26. Filtration and Filtering Media, On, 28. Tar as a Fuel, 281. Tar as a Preventive of the Potato Disease, 288. Filtration, 24. East New York, 105. Fire and Explosion at an Oil Well, 260. Tar, On Coloring Matters derived from, 298, 809, Economical Use of Coal Gas, Hints on the, Addressed Water as an Extinguisher of, 88. Trade of Belgium, 71. to the Gas Consumers of Louisville, Ky., 170. Fires, Spontaneons, 51. Edinburgh, Irrigation and Sewerage at, 7. Coals, Indian and Australian, 89. Street Pipe Arrangement for Extinguishing, 268. Demand for Cheap Gas in, 9. Code, Hopper & Gratz's Meters, 280. Resulting from the use of Illuminating Agents, Code, Hopper & Co.'s Meters, 314, 345. Eddystone Lighthouse, The, 220. Effects of the Waron the Gas and Water Interests, 105. in Coal Oil Refineries, Danger of, 831. Coke, Spontaneous Combustion of, 156. Coking, On a new process for open, 10. Cold Spring Gas Co., Controlling Interest in, for Sale, of Coal-Gas upon Animals, 281. Fish, A Witness in a Court of Justice, 316. of Extreme Pressure on Water, 188. Destruction of by Gas-Liquor, 157. Electric Gas Engine, An, 231. Flag, The Pirate, 41. 119, 187. Colliery Accident, Terrible, in France, 147. Electric Light, Influence of on Vegetation, 92. Flowing Oil Weli, 75. in Paris, The, 131. Fluids, Discharge of, 29. Explosion in England, 188. ln Coal Mines, 147. Explosion, Another, 815. Foreign News, 11, 27, 44, 60, 75, 154, 249, 331. A New, 168. Fort McHeury, Water supply for, 124. Color of Water, 279. Growing of Plants by, 251. The Arteeian Well of, 141. Colors, Naphthaline, 291. Election of Gas-Meter Inspectors in London, 156. Coloring Matters derived from Coal Tar, On, 298, 809, Forts, Light up the, 275. 326. Elmira, N. Y., 183. Foundry, Oregon, 115. Colza Oil for Lighthouses, 276. Elizabeth, N. J., 60. Warren, 119. Combustion, Air Necessary to, 39. Embankment, Proposed, of the Thames, 86. Warren, and Machine Co., 844. Employees of Gas-Works, Liberality of, 124. Southwark, Philadelphia, 157. Strange Spontaneous, 359. Fountains, Drinking, 64.
Design of, 87. Employment of Gas to Generate Steam, 44. ln Rarified Air, On, 134. Employment of Illuminating Gasin the Manufacture of Common Connell, New York, 57. France, Gas in, 119, 327. Compressed Coal, 87. Steel, On the, 167. Engine, Cornish, Great Capacity of, 23. Terrible Colliery Accident in, 147. Conduction of Heat by Gases, 71. Condition, Sound, of Gas Companies, 156. Lenoir's Gas, 220. Frankfort, Ky., 139. Fresh Air, Importance of, 60. Engines, Gas, For Steamboats, 141. Confilct of Gas Authorities in Sheffield, Eng., 87. Frost, The, and Water Cisterns, 219. Conflicting Results from different Burners, 172. Engineer, A Wag of an, 156. Engineers, Civii, Institution of, of England, 106. Fnel, Coal Tar as a, 281. Conically Slotted Solid Wood Sieves for Gas Parifiers. Gas, To, 78. Penalty for using Coal as a, 147. 185. Gas, Testimonials to, 250. Water as a, in making Iron, 28. Controlling Interest in the Cold Spring Gas Co. for Sale, 119, 137. England, Reduction in the Price of Gas in, 8, 22, 61. Sale of Gas Act in, 25. as-Works and Water-works, Where wanted, 3 19, Conviction for Illegally Obtaining Gas, 27. G 35, 51, 67, 88, 99, 115, 181, 147, 168, 179, 195, 211, Rise in the Price of Gas in. 42. Correspondents, Answers to, 9, 25, 41, 57, 78, 89, 105, 227, 248, 259, 275, 291, 807, 328, 389, 855, 871. 121, 187, 158, 169, 185, 216, 288, 249, 268, 281, Gas-Holder, Explosion in, 128. Gas in, 147, 157, 167, 215, 814, 823, 839. Agitation in Scotland, 218. 297; 818, 829, 845, 860. Gas Explosion in, 172, 215, 816. A Rival of, 848. Correspondence, 25, 57, 89, 121, 187, 153, 185, 201, Kerosene Oil Explosion in, 814. Arbitration Case, The Waterford, Ireland, 282. 283, 281, 313, 829, 345, 360. Authorities, Conflict of, in Sheffield, Eng., 87. Colliery Explosion in, 188. Corn Oil, 39. Water-Gas in, 221. and Water Mains, Snbways for, 188. Corniah Engine, Great Capacity of, 23. Average Work of, 28. Power of, 172: Oil Shipment Direct to, 848. and Water Pipes, Bitumenized, 188. Petroleum in, 800. and Water Interests, Effects of the War on, 105. English Patents, Recent, 11, 27, 44, 60, 75, 154, 249, Carbonizer, Gwynne's, 182. Coat of Lightingthe House of Parliament ln London, 125 Carburation of, in London, 195. of Coal In Paris, 275. 881. Essay, Mr. Thompson's, 89. Carburetted, In London, 858. of Exporting Petroleum, 811. Cheap, Movement, in Scotland, 71, 288. Corsica, Gas ln, 215. Estimate wide of the Mark, 27. Cresson, Mr. J. C. Doplaion of Clay Reforts, 877. Exeter, N. H., 124. Citizens Co. of Brooklyn, N. Y., 268. Exhibition of Industry and Art, International, 187. Ex-Mayors, The Gas-Lamps of, 89, 121. Coal, A New, 124: Coal, A New American, 183. Croaking, More, 297. Croton Reservoir, A Sherry Cobblerio the, 118, Coal, Hints on the Economical use of, by R. G. Explosion; Kerosene Oil, in England, 814. Crown of Light, A, 816. Cnbs, Tables of Gas-Light Companies in, 199. Cnblc Foot Measure, Alfred Kings, 105, 187. Another Colllery, 815. Courtenay, 170. Coal Oil, at Gowanus, N. Y., 889. Coal, Sulphur in, 26. Gas, in London, 847. Coal, 185. Danbury, Conn., Water-Works of, 198. Coal, Effects of, on Animals, 281. Gas, the late, in London, 878. Damage to Sewers in Brooklyn, N. Y., 78.
Dangerous Character of Benzine, 196. Gas, in Brooklyn, N. Y. Coal, Improvements and New Uses of, 840. Gas, in a Sewer, 69. Coal, Bisulphide of Carbon in, 102, 122. Danger of Pires in Coal Oil Refineries, 881. Gas-Holder, in England, 128. Cheap, Demand for in Edialingh, 9. Danger of Lead Water-Pipes, 276 Gas, in England, 172, 215, 816. Gas, in Boston, Mass., 172. Company, Baltimore; Md., 56. Danger of Some Water for Steam Bollers, 286. Company, Beltimore, The, and Prof. Aikin, 57,

Gas, in Albany, N. Y., 187.

89.

3.11	with the part of the second	INDEX.
Gas	Company, A Patriotic 108.	Gas Lighting In London, 166.
	Company, Cold Spring, N. Y., controlling interest	Lighting, Is it Dangerous, 811.
	in, for Sale, 119, 187.	Lights in Theatres, 152
-	Company, Sult against a, 12.	Lights, Reflectore for, 288.
	Companies, An Act to Authorize the formation of, 186.	— Mains, Apparatus for Tapping, 169.
	Companies, Liabilities of, for Negligence of their	- Maine, Naphthallne in; 214.
1	Servants, 180.	Manufacture of, by Surplus Heat of Blast O
_	Companies, Sound Condition of, 156.	and Puddling Furnaces, 814.
100	Conviction for illegally obtaining, 27.	— Meter, Law & Co.'s, 124.
	Employment of to generate Steam, 44. Employees, Loyalty of, 811.	— Meter, Lizzimproved, 158: Meter Inspectors, Election of, in London, 15:
	Engine, Lenoir's, 220.	- Meter, Shaw & Meacock's New, 121.
	Engine, An Electric, 281.	- Meters, Motive Power of, 157.
	Engines for Steamboats, 141.	Meters, dry, Sabbaton's Improvement in, 163
	Engineers, To, 78.	— Metes, Act for Inspection of, in Massachus
	Engineers, Testimonials to, 250. Explosion in a sewer, 69.	41. —— Movement, The Chesp, in Scotland, 875.
	Explosion in Albany, N. Y., 187.	— Movement, The Cheap, 166.
	Explosion of Portable, in Paris, 249.	- Natural Oil and, in California, 197.
	Explosion in London, 347.	- Natural Outburst of, 197.
	Explosion in London, The late, 878.	— New Apparatus for Naphtbalizing, 51. Officers, Presentation to, 243.
	Explosion in Brooklyn, N. Y., 347. Explosion in England, 172, 215, 816.	—— or Water ? 155.
	Explosion in Boston, Mass., 172.	- Petroleum and Water, 361, 877.
	Fitters, Carelessness of, 876.	- Pipe, New Method of Connecting, 78.
	Fitter wanted, 25.	—— Pipes, 19.
	From Superheated Steam and Coal-tar, 69.	Process, Leslie's Patent, 122.
	from Wood. Furnace, Description of a, for general Chemical	—— Proposed tax on, 280. —— Purifiers, Wooden Trays for, 74, 119, 187, 21
	use, 202.	Purifiers, Conically Slotted Solid Wood Si
	from Petroleum, 877.	for, 185.
	Generator, Chandor's, 125.	Purifying Process. Hill's, 147.
	Gwynne's Water, 829.	Reduction in the Price of, 121.
	Holder Explosion in England, 123. Holders on Steamboats, 201.	- Reduction in the price of, in Canada, 276 Reduction in the price of, in England, 8, 22
	Holders, 295.	- Reduction in the Price of, in Scotland, 157.
	Increase in the Price of, in London, 115.	Remarks on, from Water, Turf, and Coal, 9.
	Illuminating, from Petroleum; 377.	- Sale of Act in England, 25.
	Illuminating from Potroleum, 848.	Sale of, Lord Redesdale's Act, 108.
	Illuminating, On the Employment of, in the manufacture of Steel, 167.	- Stealing in Scotland, 184 Supply of Brighton, Eng., 27.
	Illumination, On, 285.	- Supplied by the Great Central Company of
	Illumination, Safety of, 279.	don, Dr. Letheby's report on, 28.
-	in Australia, 347.	—— Taxatlon, 251.
	in Calcutta, 7.	— The Water, 185, 72, 318, 358.
	in Corsica, 215.	— The Manufacture of, 164. — To guard against Explosions of, 284.
	in England, 147, 157, 167, 215, 314, 323, 889.	— Tubing, Cheap, wanted, 124.
	in France, 119, 327.	- Water, Aurora, Ind., 288.
	in India, 327.	—— Water, in England, 221.
	in Scotland, 39, 61, 163, 195, 219, 313.	— Water, at Marlboro' Mass, 105. — Water, Progress of the, 137, 166.
	In Spain; 119. in South America, 263.	— Water, Sanders', 25.
	in Lighthouses, 243.	- Work on Guess-work, 25.
	in large Cities, 231.	Works in British Guiana, 185.
100	Inspectors, Reports of, 85, 117, 138, 154, 169,	Works wanted at the South, 268.
. 2	185, 202, 216, 283, 249, 281.	— Works in Factories, 299. — Works of London, The, 824, 828, 845, 361.
	Journals, European, 121. Lamps of the Ex. Mays, 89, 121.	Works, Stratton Brothers', 184.
	Legislation, 314.	— Works, Ohurch, 314.
	Lighting, Hughes on, 203, 211, 245, 265.	- Works, Brooklyn, N. Y., Explosion in, 75.
	Light Association, N. Y. State, 106.	- Works in Doncaster, Eug., Extension of, 137
17.1	Light Company, Serenade to the President of the Manhattan, 115.	Works, in the Rebel States, 138. Works, The Machester, Eng., 189.
	Light Co., The Metropolitan, 844.	- Works, Liberality of Employees of, 124.
	Light Co., Milwaukee, Wis., Defalcation in the,	Galleries, Public, Lighting, 83.
4	119. The state of	Galveston, Texas, All dark in, 141.
	Light Co., The People's, of Chicago, Ill., 124.	Gases, Conduction of Heat by, 71.
1.70	Light Companies in the United States, 198. in the British Provinces of	Gases, Diffusion of, 842. Gases, Diathermancy of, 27.
	North America, 199.	Gases and Vapors, Action of, on Radient Heat, 22
- 10	in Cuba, 199.	Germany, Clay Retorts in, 158.
***	in Mexico, 199.	Grass Valley, Cal., 882.
-	in South America, 199.	Granite, Petroleum in, 281.
	in New Zealand, 199. , Tables of American, 201.	Gratz, R. H. & Co.'s Meters, 829. Greenbush, N. Y., 280.
	Light Companies, Reports of, 6, 28, 60, 84, 188,	Great Britain, Notice to Subscribers in, 25, 40, 56,
3,14	154, 282, 245, 292.	105.
	Light in Camp, 276.	Great Central Company of London, Dr. Lethe
	Light in California, 57.	Report on Gas supplied by the, 28.
	Light in the Navy Yard, 848. Light not Injurious to Eyesight, 267.	Great Britain, Water-Works of, 101, 105 Water-Meters in use in, 101.
	Light on Railroads, 889.	Great Capacity of the Cornish Engine, 28.
	Light, Opening of the British Museum to the	Growing of Plants by the Electric Light, 251.
No.	Public by, 75, 91.	Guayaquil, S. A., 105.
11964	THE WORLD CONTROL OF THE PARTY	ALCOHOL: SOME THE PROPERTY OF THE PARTY OF T

Water-Gas Apparatus; Gas Carbonizer, 132. Water-Gas, 829. plus Heat of Blast Ovena 87. tion of, in London, 156. High Stand-pipe, 25. 's Improvement in, 163. ction of, in Massachusetts, History of Ballooning, 228, Hornellsville, N. Y., 105. and, 76. Hull, Eng., Water-Works, 359. ville and Debray, 42, 52. ys for, 74, 119, 187, 216. 300. otted Solid Wood Sieves Importance of Fresh Air, 60. of, in England, 8, 22, 39. of, in Scotland, 157. Candles, 125, India, Gas in, 827. Central Company of Lon-Indian and Australian Coals, 39. Inflammability of Paraffin, 103. Information Wanted, 184. Irop, Cast, Porosity of, 9, 389. Works, Bergen, 115, 135. Works, Pascal, 133. Founders, To, 158. ug., Extension of, 137. Japan, Petroleum for, 327. Journey, A Long, 811. Journals, Gas, Enropean, 121. Gas Tax, 861. on Radient Heat, 22. in England, 814. scribers in, 25, 40, 56, 78, Kerosolene, 72, 78, 214. Kensington, Phlladelphla, Water-Works, 100. London, Dr. Letheby's King Brothers' Clay Retorts, 8. King's, Mr. Alfred, Cubic Foot Measure, 105, 187.

Gwynne's Carbonizer, 105.

Hartford, Conn., 124, 268, 332. Haywood, Mr., Report of, on the Supply of Naphthallzed Gas to Street Lamps, 102. Heating and Lighting Cities by the Power of the Tides, Heat, Conduction of, by Gases, 71. Hill's Gas Purifying Process, 147. Hints on the Economical Use of Coal Gas, Addressed to the Gas Consumers of Louisville, Ky., 170. Hospitals, Report of Sanitary Commission on Barracks Hughes on Gas- Lighting,08, 211, 245, 265. Human Register in the Croton Office, A, 135. Hydrogen, Manufacture of Oxygen and, by MM. De-Illegally Obtaining Gas, Conviction for, 27.
Illuminating Gas from Petroleum, 343, 377. Illuminating Agents, Fires resulting from the Use of, the Petroleum Trade, 267. Important Action of Insurance Companies, 197. Improved Lighting of Town, 251. Improvements and New Uses of Coal Gas, 840. Improvement in Street Lanterns; 156. Dry Gas- Meter&sbbaton's, 163. on the Davy Lamp, 172. Impurity of London Well Water, 124. Increase in the Price of Gas in London, 115. Influence of the Electric Light on Vegetation, 92. Inspector of Gas- Meter-Report of, 288. Institution of Civil Engineers of England, 106. Insurance Companies, Important Action of, 197. Petroleum vs., 332. Interest, Whaling, Decline in, 12. International Exhibition of Industry and Art, 167. Inventor, Celebrated, Death of, 252. Water as a Fuel in Making, 28. Pipes, New Method of Casting, 314. Irrigation and Sewerage at Edinburgh, 7. Is Gas- Lightin angerons? 311. Italian Countess, Explosion of, 281. Jamestown, N. Y., 108, 141, 153. Jersey City, N. J., Water-Works, 148. Journal of Gas- Lightly, The London, and the U. S. K eroseno Oll Factory Burned, 44. Works, Explosion in a, 286. Explosion in London, 249.

amps, Outside, for Store Windows, 106. - Lover's, The, 119.

Knowille, Tenn., Water-Works, 100.

Lamps, Street, Lighting, 92. New Safety, 267. Carriage, 278. Philadelphia Street, 278. Chimney, Dithridge's Ovel, 187. Stephenson's Safety, 180 Davy, Improvement on, 172. New Safety, 221. Safety, for Laboratory use, On a, 298. Lanterns, Street, Improvement in, 156. Large Water Wheels, 28. Pumping Engines, 842. Law Reports, 286, 250. Law & Co.'s Gas Moler, 124.

Lead Aqueduct Pipes, Local Decomposition in, 55. Pipe, A Substitute for, 119. Water-Pipes, Danger of, 276. On the Action of Water on, 186. Legal Record, 12. Legislation, Gas, 314. Lenoir's Gas Engine, 220. Leslie's Patent Gas Process, 122. Letheby, Dr., Report on Gas supplied by the Great Central Company of London, 28. Liberality of Employees of Gas-Works, 124. Gas Companies for Negligenco of their Servante, 181. Lighting Cities, Heating and, by the Power of the Tides, 87. Public Galleries, 88. Street Lamps, 92. of Towns, Improved 251. Public, in the British Provinces, 276. the Houses of Parliament in London, Cost of, Lighthonses, The New, at the Highlands of Navesink, 119. The Lime-Light in, 124. Gas in, 248. Colza Oil for, 276. Destroyed, 108. Lighthouse, New, at St. Abb's Head, Eng., 252. New, in Australia, 155. The Eddystone, 220. Signals of the First District, The, 92. Light, A New Electric, 168. A Crown of, 316. Electric, Influence of, on. Vegetation, 92. Electric, in Coal Mines, 147. The Lime, in Lighthouses, 124. The Lime, at the South Foreland Lighthouse, 188, 295. of ten thousand years, The, 156. up the Forts, 275. Lime-Light in Lighthouses, The, 124. Lizar's Improved Gas-Meter, 153. Local Decomposition in Lead Aqueduct Pipes, 55. London, The New River Water Co. of, 8. Water Supply of, 7. The Great Sewage Works of, 99. Increase in the Price of Gas lu, 115. Well Water, Impurity of, 124. Cost of Lighting the Houses of Parliament in. 125 Builder, Pillaging the, 137. Election of Gas-Meter Inspectors in, 156. Purity of Water Supply of, 156. Gas-Lighting In, 166. Commission of Sewers, 188. Carburation of Gas in, 195. Kerogene Oil Explosion in, 249. Times Assified, The 267. The Gas-Works of, 824, 828, 845, 861. Gas Explosion in, 847. Carburetted Gas in. 858. Journal of Gas-Lighting and the U. S. Gas Tax, 861. Lord Redesdale's Sale of Gas Act 108. Lonisville, Ky., Gas-Light Co., Report of, 282. Lovers' Lamps, The, 119. Loyalty of Gas-Employees, 811.

Magnesium Light, The Oxyhydrogen and, 359. Mains Again, Tapping Our, 812, Mains, Gas, Apparatus for Tapping, 169.

INDEX. Malaria, Carbonic Acid a Cause of, 227. Manchester, Eng., Gas-Works, The, 189. Manchester, N. H., 185, 276. Manhattan Gas-Light Company, Serenade to the President of, 115; Manhattan, N. Y., 288. Manufacture of Gas, The, 164. Manufacture of Oxygen and Hydrogen, by MM. Deviile and Debray, 42, 52. Manufacture of Coal Gas by Surplus Heat of Blast Ovens and Puddling Fnrnaces, 314. Mara's Patent Newspaper Wrappers, 216. Mark, An Estimate wide of, 27, Marlboro', Mass., 71. Water Gas at, 105. Massachusetts, Commonwealth of, An Act for the Inspection of Gas-Meters, &c., 41. Meacock's, Shaw &, New Gas-Meter, 121. Mediterranean, The American Gas-Light Journal in, 187 Meter, Shaw & Meacock's New Gas, 121. Law & Co.'s Gas, 124. which many Poets use Now-a-Days, 839. Gas, Lizar's Improved, 158. Meters, Code, Hopper & Gratz's, 280. R. H. Gratz & Co.'s, 829. Code, Hopper & Co.'s, 344, 845. Gas, Report of Inspectorfof, 283. Gas, Motive Power of, 157. Gas, Dry, Sabbaton's Improvement in/168. Water, in Australia, 183. Water, Extraordinary Results from, 103. Water, 376. Mcdia, On Filtration and Filtering, 23. Metropolitan Gas-Light Co., The, 344. Mexico, Tables of Gas-Light Companies In, 199. Military Ballooning, 147. Milwaukee, Wis., 40. Defalcation in the Gas-Light Co., 119. Milwaukee, Wis., Fifth Ward Gas Co., of, 154. Mines, Ventilation of, 299. Mines, Water in, 22. Monument to Sir Humphrey Davy, 217. More Croaking, 297. More New Dyes, 40. Motive Power of Gas-Meters, 157.

Naphthalized Gas, Report of Mr. Haywood on the Supply of to Street Lamps, 102. Naphthaine in Gas Mains, 214. Naphthaline Colors, 291. Naphthalizing Gas, New Apparatus for, 51. Navesink, The New Lighthouses at the Highlands of, Navy Yard, Gas-Light in the, 348. New Anæsthetic, A, 78. Apparatus for Naphthalizing Gas, 51.

Lighthouse at St. Abb's Head, Eng., 252.

Lighthouse in Australia, 155. Method of Casting Iron Pipes, 814. Method of Connecting Gas Pipe, 78. - Odorless Burning Fluid, 29.

Process of Open Coking. On a, 10. Reservoir in the Central Park, 313. Safety Lamps, 221, 267.

Sources of Artificial Light, B. Use for Aniiine, 287.

Dyes, More, 40.

Electric Light, A, 163.

New River Water Co., of London, The, 8. New York State Gas-Light Association, 106. New York Common Council, 57.

New York City, 288, 844, 859. New York City, Sanitary Condition of, 234.

New York City, Prospective Increase in the Water Supply of, 40.

New Zealand, Tables of Gas-Light Companies in, 199. Newbern, N. C., 859. Noble'a Photometer, 8. Notice to Subscribers in Great Britain, 25, 40, 56, 78,

Newark, N. J., Proposed Water-Supply for, 86. Niagara Fall'a Water-Power, 155.

Nichols, Death of Robert, Esq., 248. Night Signals, Telegraphic, 172.

Oil, Rock, its Geological Relations and Distribution, by Prof. E. B. Andrews of Marietta College, O., 69. Oil, Corn, 89. Coal, Mr. Young's Patent, 42. Kerosene, Factory Burned, 44. from Asphaltum, 188. Wells, Burning, 154. Well, Flowing, 79. in Pittsburgh, Natural, and Gas in California, 197. Well, Fire and Explosion at an, 260. Shipment direct to England, 848. Colza, For Lighthouses, 276. Oil Wells, The Canada, 816. A Railway to the, 816. in Canada West, 848. Olls, Paraffin and American Mineral, 267. Coal, Explosiveness of, 186, 200. Coal, Petroleum or, 197. Paraffin, for Lubricating Cartridges, 58. Odorless Burning Fluid, New, 29. On a New Process of Open Coking, 10. - the Action of Gases and Vapors on Radiant Heat, Filtration and Filtering Media, 28. - the Manufacture of Oxygen and Hydrogen by MM. Deville and Debray, 42, 62. taking off the Waste Gas from open topped Blast Furnaces, 57. the Nature and Chemical Properties of Coal Gas, by Lewis Thompson, Esq., 90, 106. a Wheel for Lifting Water and other Fluids, 182. - Combustion in Rarefied Air, 184. - the Employment of Illuminating Gas in the Mannfacture of Steel, 167. the Action of Water on Lead, 186. - Gas-Lighting, by Samuel Hughes, 203, 211, 245, 265. Kerosolene, 214. - Gas Illumination, 235. the Economy of Using Steam Expansively, by H. P. M. Birklnbine, 247. the Formation of Petroleum and Allied Substances from Woody Fibre or Animal Tissue, 278. a Safety Lamp for Laboratory Use, 298. - Coloring Matters derived from Coal Tar, 298, 809, Opening the British Museum to the Public by Gas-Light, 75, 91.

Oregon Foundry, 115. Origin of Coal, 43. Origin of Coal Mines, The, \$55. Our Third Volume, 8. Outside Lamps for Store Windows,

Outburst of Natural Gas, 197. Oxyhydrogen and Magneaium Lights, The, 859. Oxygen and Hydrogen, Manufacture of by MM. De-

ville and Debray, 42, 52. Ozone, 92.

Paraffin and the American Mineral Olls, 267. Paraffin, Inflammability of, 108. Paraffin Oils for Lubricating Cartridges, 58. Parliament, Cost of Lighting the House of, in London, 125. Paris, The Electric Light in, 181. Explosion of Portable Gas in, 269. Cost of Coal in, 275.

Pascal Iron Works, 188.

Patents, United States, 12, 28, 45, 61, 76, 92, 108, 123, 140, 156, 188, 204, 220, 286, 252, 268, 284, 800, 815, 882, 848, 864, 880. Penalty for Using Coal as a Fuel, 147.

Pennsylvania, The Petroleum Begion of, 297.

Passaic Water, Purity of, 29. Passy, France, Artesian Well of, 27, 188. l'atent Office Notices, 829. Mr. Young's Coal-Oil, 42. A Valuable, 288. Agency, British, 184. Bitnminized Gas Pipes, 221, 248, 845. Gas Process, Leslie's, 122. Patriotic Gas Company, A, 108,
Patents, Recent English, 11, 27, 44, 60, 75, 164; 331.

Radiant Heat, On the action of Gases and Vapors Pennsylvania, Coal Product of Bastern, 237. Sewers, Damage to, in Brookiyn, N. Y., 78. London Commission of, 188. 'on, 22. People's Gas-Light Company of Chicago, Ills., 124. Railway Carriage Lamp, 278. Sewerage and the Prussian Government, 3. Personal, 8, 40. Rainfall of the Tropics, 78. Petroleum or Coal Oils, 197. and Water Supply, 260. Trade, 227. Rarefied Air, On Combustion in, 184. Irrigation and, in Edinburgh, 7. Railway to the Oil Wells, A, 816. Shaw & Meacock's New Gas Meter, 121. 231. Sheffield, Eng., Conflict of Gas, Authorities in, 87. Trade, Importance of, 267. Railroads, Gas Light on, 889. On the Formation of, and Allied Substances Rebel States, Gas Works in, 188. Sherry Cobbler in the Croton Reservoir, A, 118. Sleepers, Drain Pipe, 181. Water-Works in, 188. from Woody Fibre and Animal Tissue, Solid Wood Trays, 184. South America, Tables of Gas Light Companies in, 199. Recent English Fatents, 11, 27, 44, 60, 75, 154, 249, 831. in Granite, 281. Record, Legal, 12. in Canada West, 288. Reduction in the Price of Gas, 121. South America, Gas in, 268. Region of Pennsylvania, The, 297. Reduction in the price of Gas in England, 8, 22, 89, 61. South, Gas Works Wanted at the, 268. Canada, 276. South Foreland Lighthouse, The Lime Light at the, in England, 800. 183, 295. Reflectors for Gas-Lights, 283. Canadian, its Value and Uses, 807. Sound Condition of Gas Companies, 156. Register, A Human, in the Croton Office, 185. Cost of Exporting, 811. Remarks on Gas from Water Turf and Coal, 9. Sour Grapes, 283. for Japan, 827. Removal of Dr. Antisell: 90. Southwark Foundry, Philadelphia, 157. va. Insurance Companies, 882. Report of the Inspector of Gas-Meters, 233. Spain, Gas in, 119. Iliuminating Gas from, 343, 877. of the Louisville, Ky., Gas Light Co., 282.
of Mr. Haywood in the Supply of Naphthalized Spontaneous Combustion, Strange, 859. Items, 816, 848, 858. Spontaneous Fires, 51. and Water-Gas, 261, 877. Spontaneons Combustion of Coke, 156. in Wayne County, N. Y., 815. Gas to Street Lamps, 102. Dr. Letheby's, On Gas supplied by the Great Spectral Analysis, Discovered by, 227. Philadelphia, Pa., 259, 297, 311, 316, 359. Central Company of London, 28. of the Sanitary Commission on Barracks and Water-Works of, 260. Report of Gas-Light Co., 292. Spectra of Artificial Light, Researches on, by H. F. Talbot, Esq., 26. Stand-pipe, High, 25. Advertisers, To, 25, 40, 56, 78. Hospitals, 76. Standard Burners, 201. Street Lamps, 278. of Gas Inspectors, 85, 117, 138, 154, 169, 185, 202, 216, 283, 249, 281. Steam, On the Economy of Using Expansively, by H. Photometer, Nobel's, 8. P. M. Birkenbine, 247.

Employment of Gas to Generate, 44. Phenic Acid, 358. of Gas-Light Companies, 6, 28, 60, 84, 138, 154, 283, 245, 292. Photometry, 878. Boilers, Water for, 85. Pillaging the London Builder, 187. Law, 236, 250. Steamboats, Gas Engines for, 141. Pipe Joints, 848. Results of 40 years Working in the Anthracite Coal Gas Holders on, 201. Lead, A Substitute for, 119. Fields of Pennsylvania, 7. Drain, Sleepers, 181. Researches on the Spectra of Artificial Light, By H. Steel, the Production of, 39. F. Talbot, Esq., 26. On the Employment of Illuminating Gas in tho Pipes, Gas, 19. Reservoir, The New, in the Central Park, 813. Manufacture of, 167. New Method of Connecting, 78. Stephenson's Safety Lamp, 150. Lead, Local Decomposition in, 55. Bursting of a, 859. Sterling Coal, 264, 297, 816. Bituminized Gas and Water, 188. Reservoirs, Salubrity of Water, 106. Store Windows, Outside Lamps for, 106. Patent Bituminized Gas, 221, 248, 845. Croton, A Sherry Cobbler in, 118. Water, 91. Strange Spontaneous Combustion, 859. Iron, New Method of Casting, 314. Street Lanterns, Improvement in, 156. Pirate Flag, The, 41. Retorts, King, Brother's, Clay, 8. L. ampsLighting, 92. Pittsburgh, Oil in, 75. Clay, in Germany, 158. Clay, On Mr. J. C. Cresson's Opinion on, 878. Pipe Arrangement for Extinguishing Fires, 268. Pittsburgh, Pa., Gas Company, 84. St. Louis, Mo., Report of Gas Co., 244. -and no Questions Asked, 105. Pittafield, Mass., Water-Works of, 116. Plants, Growing of, by the Electric Light, 251. Richmond, Va., 247. Subscribers in Great Britain, Notice to, 25, 40, 56, 78, Rio de Janeiro, S. A., 151. Poets, A Meter which many use now-a-days, 869. Substitute for Lead Pipe, A, 119. Rise in the Price of Gas in England, 42: Post-Office Towns in the United States, 8, 19, 85, Rival of Gas, A, 848. Rochester, N. Y., 179. Subways for Gas and Water. Mains, 188. 51, 67, 88, 99, 115, 181, 147, 168, 179, 196, 211 Subscribers, To, 876. 227, 248, 259, 275, 291, 807, 823, 889, 855, 871. Porosity of Cast-Iron, 9, 889.
Portland, Me., Report of Gas-Light Co., 18 Rock-Oil, Ita Geological Relations and Distributions, Suit against a Gas Company, 12. by Prof. E. B. Andrews, of Marietta College, O., Sulphur in Coal Gas, 26. Portland, Me., 259. Supply of Coal, A Winter's, 185. Superheated Steam and Coal Tar. Gas from, 69. Portable Gas, Explosion of, in Paris, 249. Sanitary Commission, Report of, on Barracks and Surrey Consumers' Company, Dr. J. Northcote Vinen's Potato Disease, Coal Tar as a Preventive of the, 288. Power of Cornish Engines, 172. Hospitals, 66. Reports on Gas supplied by the, 28, 78. Premium, Boyden, 829. Sabbaton's Improvement in Dry Gas Meters, 168. Stratton Bros. Gas Works, 184. President of Manhattan Gas-Light Company, Serenade Safety Lamp, Stephenson's, 150. to, 115. Lamp for Laboratory Use, On a, 298. Nables of Gas-Light Companies in the United States, Pressure, Effects of Extreme, on Water, 188. Lamps, New, 121, 267. 198. Presentation to Gas Officers, 248. of Gas Illumination, 279. Tables of American Gas-Light Companies, 201. Price of Gas, Reduction in, in England, 8, 22, 89, 61. Sale of Gas Act, Lord Redesdale's, 108. Taxation, Gas, 251. Rise in, in England, 42. Sale of Gas Act in England, 25. Tax-The London Journal of Gas-Lighting and the U. Increase in, in London, 115. Salubrity of Water Reservoirs, 106. S. Gas 861. Reduction in, in Scotland, 157. Saint John, N. B., 147. Tapping our Mains again, 812. San Francisco, Cal., Water-Works of, 182, 279. Telegraphic Night Signals, 172. Process, On a New for Open Coking, 10. Ten Thousand Years, The Light of, 156. Production of Steel, The, 89. San Francisco, Cal., 276. Banders' Water-Gas, 25. Progress of the Water Gas, 187, 166. Terrible Colliery Accident in France, 147. Proposed Embankment of the Thames, 86. Sanitary Condition of New York City, 284. Thames, Proposed Embankment of, 86. Proposed Tax on Gas, 280. Sanitary Properties of Charcoal, 104. Theatres, The Ventilation of, 121. Prospective Increase in the Water Supply of New York Santiago de Cuba, 186. The American Gas-Light Journal, 281. City, 40. Scotland, Gas in, 89, 61, 168, 195, 219, 818. Waterford, Ireland, Gas Arbitration Case, 282. Providence, R. I., 268. Cheap Gas Movement in, 71, 288, 875. Petroleum Region of Pennsylvania, 297. Gas Stealing in, 184. Prussian Government, Sewerage and the, 8. Sterling. Coal, 264, 297, 829. Purity of Passaic Water, 29. Gas Agitation in, 218. Production of Steel, 89. Purification of Water, 64. Reduction in the Price of Gas in, 157. Pirate Flag, 41. Origin of Coal, 43. Parified Administration, A, 108, Serenade to the President of the Manhattan Gas-Light Purifiers, Gas, Wooden Trays for, 74, 119, 187, 185, Baltimore Gas-Light Company, 56. Company, 115. 216. Purifying Process, Hill's Gas, 147. Bewage, 268. Baltimore Gas-Light Co. and Professor Aikin, 87. of Towns, 877. Conduction of Heat by Gases, 71. Purifying Process, Mr. Bowditch's, 158. Purity of the London Water Supply, 156. Works, The Great, of London, 99. Water Gas, 72, 185, 818, 858. of Dublin, The, 124. Turbine Water Wheels for Fairmount, 74. of Calautta, 124. Public Lighting in the British Provinces, 276. Proposed Embankment of the Thames, 86. Sewer Ventilation and Deodorization, 299. Pumping Engines, Duty of, 382. Gas Lamps of the Ex-Mayors, 89, 121. Large, 842. A Banquet in a, 859. Light-House Signals of the First District, 92. Great Sewerage Works of London, 29. Lovers' Lamps, 119. Gas Explosion in a, 69. Cornish, Average Work of, 28. Decignation by Charcoal Pilters, 186, 299.

Turkish Baths, 19, 57, 827.

The New Lighthouses at the Highlands of Navesink, Ventilation of Theatres, 121: Sewage of Dublin, 124. Berlin, Prossia, Water-Works, 124. Lime Light in Lighthouses, 124. Electric Light in Paris, 131. Lim Light at the South Forcland Lighthouse; 181. 295. American Gas-Light Journal in the Meditorranean, 187./ Manchester, Eng., Gas-Works, 139. Artesian Well at Fort McHenry, 141. Light of Ten Thousand Years, 156. Manufacture of Gas, 164. Cheap Gas Movement, 166. Artesian Well at Passy, 27, 183. Frost and Water Cisterns, 219. Eddystone Lighthouse, 220. London Times Assified; 267. Sanders Water-Gas, 25, 72, 313. New Reservoir in the Central Park, 313. Canada Oil Wells, 316. Gas-Works of London, 824, 328, 845, 361. Turkish Bath, 327. Metropolitan Gas-Light Company, 344. Origin of Coal Mines, 355; Oxyhydrogen and Magnesium Lighte, 359. Hull, Eng., Water-Works, 359. London Jonrnal of Gas-Lighting and the U. S. . Gas Tax, 361. Late Gas Explosion in London, 373. Things Ancient, Quaint and Rare, 12. Thompson's Essay, 89. Thompson, Lewis, on the Nature and Chemical Properties of Coal-Gas, 90, 106. Tides, Heating and Lighting Cities by the Power of, 87. To Advertisers, Foreign and Domestic, 105. - Gas-Engineers, 73. Guard against Explosions of Gas, 234. - Iron Founders, 153. Philadelphia Advertisers, 25, 40, 56, 78, Subscribers, 876. Towns, Sewage of, 377. Tracing Paper, Benzole, 300. Traomere Water-Works, Cheshire, Eng., 39. Trays, Solid Wood, 184. Trays, Wooden, for Gas Purifiers, 74. Troy, N. Y., Water-Works of, 68.

N. Y., 124. N. Y., Expense of Lighting, 875. Water-Works, Account for 1861, 875. Tropics, Rainfall of, 73. Tubing, Cheap Gas, wanted, 124. Turbine Water Wheels for Fairmount, The, 74.

Turpentine, Benzole as a Substitute for, 141. Turner, Messrs. Emannel & Co,'s Coals, 183, 216. Testlmonials to Gas Engineers, '200. Value of Water, 92. Ventilation of Theatres, The, 121. Ventilation and Artificial Warming, 259. of Mines, 299. and Deodorization Sewer, 299. Vegetation, Influence of the Electric Light on, 92. Volume, Our Third, 8. Wag of an Engineer, A, 156. Walton's Antl-Freezing Apparatus, 184. Warming, Ventilation and Artificial, 259. Wanted, Gas Fitter, 25. Another £2,000, 35. Warren Foundry, 119. Warren Foundry and Machine Co., 844. Washington, D. C., 311. Waste of Coal in Mining, 3. Gas from Blast Furnaces, On taking off, 57. of Water, 860. Water as a Fuel in Making Iron, 28. as a Weapon, 88. as an Extinguisher of Fire, 88. Cisterns, The Frost and, 219. Color of, 279. Co., The New River, of London, 3. Danger of some, for Steam Boilers, 236. Effect of extreme pressure on, 183. for Steam Boilers, 85. Gas, Gwynne's, 829. Gas. Petroleum and, 861, 871. Gas, Progress of the, 187, 166. Gas, Sanders', 25, 72, 313. Gas, The, 72, 185, 813, 358. Gas at Marlboro', Mass., 105. Gas or ? 155. Gas in England, 221. Gas Co., Aurora, Ind., 288. Interests, Effects of the War on, 105. in Mines, 22. Mains, Subways for Gas, and, 183. Meters in Acadralia, 188. Meters in Use ln Great Britain, 101. Meters, Extraordinary Results from, 158. Meters, 876. On the Action of, on Lead, 186. Passaic, Purity of, 29.

Pipes, Bituminized Gas and, 183.

Power, Niagara Falls, 155.

Purification of, 54.

Water Rates, Assessed, 829, Reservoirs, 91. Reservoirs, Salubrity of, 106. Supply of New York City, Prospective Increase in. 41. Supply for Fort McHenry, 124. Supply of London, England, 7. Supply of British Cities, 155. Supply, London, Purity of, 156. Supply, Proposed, Newark, N. J., 86. Supply, Sewage and, 260. Value of, 92. Waste of, 860. Well, in Large Cities, 168. Well, London, Impurity of, 124. Wheels, Large, 28. Wheels, Turbine, for Fairmount, 74. Works in Rebel States, 188. Works of Great Britain, 101, 105, 118, 133. Works of America, 4, 20, 86, 68, 100, 116, 182, 148, 196, 260, 279, 856, 871. Worles, Fairmount, Philadelphia, Extension of, 115. Works, Hull, England, 859. Works, The Borlin, Prussla, 124. Works, Chelsea, Eng., Filter of, 29. Works, Tranmere, Cheshlre, Eng., 89. Works, Troy, N. Y., Account for 1861, 875. Waterford, Ireland Gas Arbitration Case, The, 282. Wayne County, N. Y., Petroleum in, 316. Weapon, Water as a, 88. Well-Water in Large Cities, 168. Well, The Artesian, at Passy, 27, 183. Oil, Flowing, 75. Wells, Artesian in Algeria, 359. Ancient Arteslan, 9. Capacious, 29. West Troy, N. Y., 124, 283. Whaling Interest, Decline in, 12. Wheel, On a, for Lifting Water and Other Fluids, 182. Where Gas-Works and Water-Works are Wanted, 8, 19, 35, 51, 67, 83, 99, 115, 131, 147, 163, 179, 195, 211, 227, 243, 259, 275, 291, 307, 828, 889, 855, 871. White Plains, N. Y., 297. Williamsburgh, N. Y., 238, 381. Witness, A Fish a, in a Court of Justice, 816. Wood, Gas from, 51. Wood Trays, Solid, 184 Wooden Trays for Gas Purifiers, 74, 119, 187, 185, 216. Wrappers Mara's Patent Newspaper, 216. Young'e, Mr., Coal Oll Patent, 42.

Yreka, Cal., 156. Yield of Cannel Coal, 267.

AMERICAN GAS-LIGHT JOURNA

THE OFFICIAL GAZETTE

LIGHT. HEAT. WATER-SUPPLY. AND SEWERAGE.

Rooms-No. 39 Nassau Street, cor. Liberty Street, opposite the Post-Office, New York.

Vol. III.-No. 37.

NEW-YORK, MONDAY, JULY 1, 1861.

\$8 PER ANNUM.

CORNELIUS & BAKER.

LAMPS, CHANDELIERS, GAS-FIXTURES, &c.,

821 Cherry St., and Fifth St. and Columbia Avenue. STORE, 710 CHESTNUT STREET,

PHILADELPHIA.

MITCHELL, VANCE & CO., MANUFACTURERS OF

CHANDELIERS,

AND EVERY DESCRIPTION OF GAS-FIXTURES. WAREHOUSE, No. 620 BROADWAY.

Manufactory, 335, 337, 339, 343 West 24th Street, NEW YORK.

GAS-FIXTURES. BALL, BLACK & CO., 565 and 567 Broadway, CORNER OF PRINCE STREET, NEW YORK, In addition to their large stock of

RICH GOODS, Offer for sale a large assortment of CHANDELIERS AND GAS-FIXTURES Of every description and of the newest styles, Both

FOREIGN AND DOMESTIO Manufacture.

FELLOWS, HOFFMAN & CO.,

(LATE STARR, FELLOWS & CO.,)

MANUFACTURERS OF

Gas-Fixtures and Chandeliers.

Solar, Camphene & Pluid Lamps, Girandoles, Hall-Lanterns, &c. No. 74 BEEKMAN STREET, NEW YORK

MANUFACTORY, 71, 73, 75, 77, 79, 81, 83 Boerum Street. And 88, 90, 92, 94, 96, 98, and 100 Johnston St., BROOKLYN, N. Y. E. V. HAUGHWOUT & CO., 488, 490, & 494 Brondway, Corner of Broome St., New York,

Gas-Fitters and Contractors for the

Ercetion of Gas-Works. Mesers. E. V. Hauchworr & Co. have on hand a most extensive assortment of the newest and most desirable styles of

CHANDRIERS, BRACKETS, LAMP-POSTS, AND GAR-FIXTURES OF EVERY DESCRIPTION,

to which they would respectfully call the atten-tion of the public.

Gas-fitting done in the most workmanlike manner, and on reasonable terms

M. L. CURTIS.

C. A. VAN KIRK & CO.,

Gas-Fixtures and Chandeliers.

Ambrose's Patent Coal-Oil Burners, to be used without Chimnies,
Patent Paragon Coal-Oil Burners, Patent Improved Excelsior
Coal-Oil Burners, Hand Lamps, Columns, &c.
MANUFACTORY AT FRANKFORT, PHILADELPHIA.
SALES-ROOM, 626 CHESTNUT STREET.

Every article warranted equal in design and workmanship to any manufactured in the country.

141 ELM STREET, NEW YORK CITY.

MANUFACTURER OF

GAS-FITTING IN ALL ITS BRANCHES.

OLD CHANDELIERS, &c., RE-FINISHED IN GILT, OR BRONZED,

OR MADE TO APPEAR EQUAL TO NEW.

ANALYTICAL CHEMIST.

ELTON BUCK, ANALYTICAL o and Consulting Chemist, 39 Nassau st., New York. Analyses of Ores, Minerals, Solis, Quanos, Coals, &c., and Tests of Compercial Articles, carefully and promptly made. Consul-tations may be had, and opinions given on Chem-ical questions. Samples for analysis from a dis-tance, may be sent by mail or express, directed to the Laboratory as above.

MISCELLANEOUS.

WOODEN TRAYS FOR GAS-WOODEN TRAYS FOR GASPURIFIERS,—JOHN L. CHEESMAN,
No. 147 Avenue C, near Tenth street, New York,
manufactures his Patent Wooden Trans for GasPORIFIERS, cut out of the solid wood, superior to
the ordinary iron plates, cheaper and more durable. The attention of Gas Companies and Engineers is called to this improvement, which has
been adopted by the föllowing Gas-Works:
Albany, N. Y.
Manhattan, N. Y. City,
Chicago, Ill.,
Williamsburgh, N.Y., Worcester, Mass.
See engravings on page 148, vol. II.

HARRIS LOUDERBACK,
FIRE-BRICK LAYER
AND GAS RETORT SETTER,
So. 1005 Clement Street, Philadelphia.

MESSRS, J. WRIGHT & CO., Con-sulting Engineers and Solicitors of Paterry, No. 43 Bridge street, Blackfrian, London, R. O. Petents for inventions obtained in all countries where Patent Laws are in force.

HOT WATER GAS STOVES, Manufactured by HUNYER, KELLER & Co., 144 Centre street, New York. See Engravings on page 168, Vol. II. of this Journal.

PHOTOMETER APPARATUS and Room for Sale.—The Room is about 6 feet wide by 12 feet long, painted black middle and screwed together. It can be taken lown and boxed for transportation. All the pipes and fittings are complete for immediate middle and the same transportation and barbarat some same treet, N. Y.

WATER-GAS WORKS.

WATER-GAS.--APPLETON

NEW ENGLAND WATER GAS CO.,
NEW ENGLAND WATER GAS CO.,
TO DEPART THE SASPASS PAYER,
AND ARREST THE SASPASS PAYER,
AND ARREST THE SASPASS PAYER,
AND ARREST TO THE SASPASS PAYER AND THE PAYER AND T

expense.

A. & G. continue as heretofore to erect their improved Rosin and Rosin-Oil Works for Private Dwellings, Factories, &c. For further particulars apply at 56 Washington st., Boston.

WOODEN GAS-PIPE.

DATENT PREPARED WOOD PIPE

PATENT PREPARED WOOD-PIPE for Gas Mains,—Wm. Stephenson would call the attention of Gas Companies and Engineers to ble Patcht, Prepared Wood Gas-Pipe. This Pipe is prepared in a way so as to effectually prevent its decay, and has been proven to be superior to Iron pipe in three towns where he has crected Gas-Works.

The coof of the Pipe, and the facility with which it can be laid, and also its not being subject to, expension and contraction by change of temperature, reader it entirely free from leakings; three is also less condensation than in Iron pipe. These are among the advantages gained by the use of this Pipe, and are sufficient to recommend it to the flavorable consideration of Gas Companies and Kogineers; and it is considered, by those who have calculated in the recommend of the American Gas-Leure Journal, No. 83 Nassau street, New York; and further information, with reference to the Patentee.

Will of Right-Rook, Gas Engineer, Freedom, Ohe.

STEAM-PUMPS.

WORTHINGTON'S STEAM PUMPS, extensively used by Gas-Light Companies. For fails at greatly fiedneed frices. Also, a sey and highly seconstal. Furny, driven by water presumer, regulating no attention or repairs, and the most enconemical water motor yet

ntest GATES, for Water sod Steam-stops. HENRY R. WORTHINGTON, 61 Seekman street, N. Y.

(. .

GAS-FIXTURES.

TIFFANY & COMPANY, JEWEL-A ers and importers of elegant artistic Pass Gas Ceamberres, Brackers, Perdants, &c., in Bronze and Gill. No. 550 BROADWAY, NEW YORK.

No. 500 BROADWAY, NEW YORK.

PHILADELPHIA GAS FIXTURE
Works.—Warner, Miskey & Merrill,
Manufactarers, Store, No. 718 Chestnut street,
Philadelphia. Warner, Peck & Co. No. 376
Broadway, New York, would respectfully inform
the public that they continue to Manufacture allkinds of Gas Fixtures, Lamps, Girandoles, Brouzes
&c., and that their large and varied stock comprices the simplest as well'as the most elaborate
patterns, designed by their French arists. They
also continue to keep at their store, 376 Broadway, a large and full assortment of all their manufactured Goods. Dealers and others are invited
to call and examine.

GEORGE H. KITCHEN & CO., Manufacturers of Fixtures for Gas Light purposes, Wood's Building, No. 561, Broad-way, New York. Office of the Inspector of Gas Meters for the State of New York.

GASOMETER RIVETS.



PHILLIPS & ALLEN, Pennsylvania Avenue, above 22d street, Phila-delphia.—Gasomeren Rivers of all kinds.

GAS-METER FLUID.

TLUID FOR GAS-METERS.—The undersigned is prepared to furnish the directive Meter Mad in quantities to sait parchasers. If does not ecaparate, on he mode to stand amy degree of cold Mable to occur in this country of inclounds, and does not correct the metals of the meter. It has been in see successfully for the last three years.

For particulars, references, i.e., address the manufacturer, HRMAY BOWER,

Box Sele-Philadelphia, Pa.

GAS-HOLDERS.

G ASOMETERS, RETORT HOUSE ROOFS, WATER TANKS,

PURIFYING-BOXES, COAL-CARS, CORE BARROWS,

AND ALL KINDS OF WROUGHT-RON WORK FOR GAS AND WATER WORKS.

Manufactured by GEORGE W. KRAFT, Chest-nut street wharf, West Philadelphia, Pa.

CEORGE STACEY, CINCINNATI, O.,

Manufacturer of single and Telescopic Gasboiders, Wronght-Iron Bridges, Girders, Josta and Sairways, Oste and Coal Wagons, Rakes, Berean, and other Gas. works tools, Silde and Cup Valves, Bolts, Nuts. Cheels, Ladles, and other tools. Wrongst-Iron Boofs, for Silde and Corrugated Iron, Clur Purifiers, Washers, Centre Seal Valves and Other Une supparatus Bolter-plate Betors Lide. Refer to—
Cholumati Gas. Inghi to Co. Sildes and Corrugated Lad. Light Co.

Gringfield Gas. Light Co.

Govington and Newport Gas. Light Co.

Memphis Gas. Light Co.

James H. Caldwell, Esq., New Orleans, John Jeffrey, Esq., Cholunnil.

DOOLE & HUNT, BALTIMORE, MD., are prepared to execute orders for GAS-HOLDERS, IRON-ROOF FRAMING,

And all other descriptions of on Work for Gas-Works, Water-Pipes, and Heavy Castings, and Machinery generally.

AS-HOLDER FOR SALE.—25 feet diameter, 14 feet high, capacity about 6,500 feet. Has been in one but a morrisme. Good as new. Cast iron guide frame, balance weights and chains complete. Will be sold for \$500 (which is less than half its cort), if applied for immediately. Address M., Box 400 Feet Office, Philadelphia, Pa.