

## INDEX

- Acoustic Instruments of Messrs. Bright, 270.  
 Aeronautical Society, founded by Sir Charles Bright, 127.  
 Ailhaud, Mr., electrically duplexing cables, 381.  
 Aird, Mr. John, M.P., 171.  
*Alarma*, 205.  
 Alexander, Mr. Thomas, 50, 84.  
 Alexandria, connecting line from Malta, 3; to Suez, "Red Sea" Co.'s line worked, 32.  
 Algiers, attempt to connect with Toulon, 5.  
 Allan, Mr. Thomas, "Light Cables," 161.  
 Andrews, Mr. William, Administrator, Indo-European Co.'s system, 98.  
 Anderson, Sir James, General Manager of Eastern Telegraph Co., 163.  
 Angerstein, Mr. W., representative of Greenwich in Parliament, 108.  
 Anglo-American Co., reduction of tariff, 377.  
 Anglo-Australian and China Telegraph Co., 157.  
 Anglo-Indian Telegraph Co., 155.  
 Anglo-Mediterranean Telegraph Co., 152.  
 Arabs, how to treat, 69, 74, 93; Durbar of, 72.  
 Arecibo, *Dacia* and *Suffolk* at, 288.  
 Argyll, Duke of, founder of Aeronautical Society, 127.  
*Assaye*, the, Indian Telegraph Fleet, 51; paying-out cable, Persian Gulf, 76; in storm near Gwadur, 90.  
 Augur Worm (*Teredo Navalis*), injuries by, to Persian Gulf cable, 39.  
 Automatic Fire Alarms, 346; Insurance Companies and, 349; Bright's paper on, at Society of Telegraph Engineers, 351.  
 Aylmer, Mr. John, 390.  
 Ayerton, Mr. Acton, "East India Communications," 143; equalization of Poor Rates, 168.  
 Balearic Islands connected with Spain, 4.  
 Banquet to celebrate the Atlantic cables, 129, 130; Mr. Field's speech at, 130; Bright's speech at, 131; Prof. Morse's message to, 133; to celebrate twenty-fifth anniversary of laying cables to Far East, 165.  
 Barbadoes, Bright's sojourn at, 274.  
 Barrett, Captain, 193.  
 Batabano, 203.  
 Baxter-Langley, Mr., 124.  
 Beasley, Capt., 194.  
*Beatrice*, Bright's steam-launch, 194, 418.  
*Ben Ledi* s.s., 194.  
 Bennett, Mr. James Gordon, 380.  
 Berbice, Bright at, 266.  
 Berger, Mr. George, Commissaire-General of Paris Exhibition, 390.  
 Blunt, Mr. F. W., 320.  
 Bolton Gardens, the Brights take up their quarters at, 306.  
 Bombay, Telegraph Fleet arrives at, 54.  
*Bonaventure*, Spanish gunboat, 7, 193.  
 Bow-baulks, 297 (note).  
 Boys, Mr. C. V., in charge of London office, 195 (note).  
 Bradshaw, Capt. (Vice-Admiral Richard, C.B.), supporter of Bright at Greenwich Election, 121.  
 Bramwell, Mr. F. J. (Sir Frederick, D.C.L., F.R.S.), 320.  
 Brasher, Mr. T., 50.  
 Brazilian Coast, Concession to Bright to lay cables along, 307.  
 Brazilian Submarine Telegraph Co., 308.  
 Bright, Sir Charles Tilston, tests of cable coverings by, 1; consulted as to Gibraltar cable, 1; on importance of surveying cable routes, 12; arranges change in systems of the "Magnetic," 17; partnership with Mr. Latimer Clark, 19; paper on "The Telegraph to India," 24; patent system of 1862, outer covering for cables, 25; patent for curbing electric currents when signalling, 28; personal supervision Persian Gulf cable, 47; connects Spain and Bal-

Cambridge University Press

978-1-108-05289-4 - The Life Story of the Late Sir Charles Tilston Bright Civil Engineer: Volume 2

Edward Brailsford Bright and Charles Bright

Index

[More information](#)

## INDEX

- earic Islands, 57; letters to Lady Bright from Bombay, 1863, 55, 56; takes charge of cable at Bombay, 58; Freemasonry of use to, among Arabs, 71; letter from, at Baghdad, 86; return from Persian Gulf, 91; wins the Telford Medal, 1865, 99; some personal recollections of, by Mr. F. C. Webb, 104; election address at Greenwich, 1865, 109; elected M.P. for Greenwich, 124; Presidential Address to Institution of Electrical Engineers, 129 (note); on working of Turkish telegraph systems, 141; extension of cables to Far East, 149; Engineer and Electrician to Anglo-Mediterranean Co., 153; at Cairo, 154; equalization of Poor Rates, 168; letter declining to be renominated for Greenwich, 169; sails for New York, 195; account of laying Havana cable, 206; courtesy to Jamaica Press, 222; at Kingston, 222; weakness from malarious fever, 269; death of, 394, 435; summary of chief inventions by, 445.
- Bright, Miss Beatrice, 413.
- Bright, Mr. Charles, F.R.S.E., *Submarine Telegraphs* by, 31 (note); Contribution to Society of Arts on the Telegraph to India, 40; Contribution to Institution of Electrical Engineers on Lightning Guard, 272; article in *Fortnightly Review* by, 312.
- Bright, Messrs. E. B. and Sir C., resistance coils suggested in 1852 patent, 23; appreciation of, by Railway Companies, 319.
- Bright, Major Henry, killed at Battle of Toulouse, 132.
- Bright, Rt. Hon. John, M.P., 170.
- Bright, Mr. John Brailsford, 388.
- Bright, Miss Mary, married to Mr. David Jardine Jardine, 412.
- Bright & Clark, Messrs., the firm of, 20, 23; paper on electrical standards, units and measurements, 21; nomenclature of electrical standards and units, 22 (note); experiments as to insulation of gutta-percha covered wire, 23; compound for covering cables, 25; advisers to "Telegraph to India" Co., 31; appointed engineers, Persian Gulf cable, 38; dissolution of partnership, 175.
- Bristol Trade and Mining Schools, Bright distributes prizes at, 371.
- British Association, Standard resistance coil of, 23.
- British-Australian Telegraph Co., 157, 164.
- British Electric Light Co., 357; Dis-
- play of Lane Fox Incandescent Lamps, 364.
- British Indian Extension Telegraph Co., 157, 164.
- British Indian Submarine Telegraph Co. take over Alexandria-Suez land-line, 32, 155.
- British and Irish Magnetic Telegraph Co., Bright retires from post of Engineer, 14.
- Brooke, Sir W. O'Shaughnessy, 29 (note).
- Buchanan, Capt., 194.
- Bushire, *Tweed* and *Zenobia* start for, 75; growth of importance of, 77; fault discovered in cable to Fão, 83; lines from, to connect with Russo-European system, 97.
- Buxton, Sir Fowell, M.P., equalization of Poor Rates, 168.
- Cable, India-rubber for parts in deep water, 200; sticky condition of, 212.
- Cables, Gibraltar, 1; Malta and Alexandria, 3, 152; unsuccessful attempts in Mediterranean, 4; Balearic Islands and Spain, 4; extension to the Far East, 150; Anglo-Mediterranean, 152; Colon-Jamaica, 290.
- Cabarga Don Jose di, Bright visits tobacco factory of, 301.
- Caird, Mr. James, Picnic given by, 420.
- Caithness, Earl of, 302.
- Calcraft, Sir Henry, K.C.B., 367.
- Candidates for Greenwich Election, 124.
- Canning, Mr. (Sir Samuel), Malta-Alexandria cable, 3; Algiers-Toulon cable expedition, 8; Chief Engineer to Telegraph Construction Co., 152.
- Carpendale, Lieut., commanding the *Zenobia*, 58.
- Cecil, Lord Sackville, acts for Bright when abroad, 202; a pupil of Bright, 398.
- Cecil, Lord Hugh, present M.P. for Greenwich, 109 (note).
- Central American Telegraph Co., 308.
- "Cercle Español" at Havana, Bright made Hon. Member of, 204; attacked, 205.
- Champain, Major (Sir J. U. Bateman, R.E., K.C.M.G.), 84; Director-General, Indo-European Telegraph system, 94.
- Chatterton's compound, first use of, 30 (note).
- Chauvin, Mr. G. von, 380.
- Chesney, Col. (General Sir George, K.C.B., M.P.), 277.
- Childers, Rt. Hon. Hugh, friendship with Bright, 143.
- China Submarine Telegraph Co., 157, 164.

## INDEX

- Chiswick, the Bright family remove to, 172.  
 Christopher Columbus, Bright unveils statue of, 233.  
 Clark, Capt. A. H., 380.  
 Clark, Mr. Latimer, M.Inst.C.E., partnership with Sir C. Bright, 19; investigation of Suez-Karachi cable, 33; segmental conductor, 41; on cause of failure of Suez and Bombay cable, 1859, 145; expert evidence of, 315; Bright dissolves partnership with, 325.  
 Clifford, Mr. Henry, Malta-Alexandria cable, 3.  
 Clubs: Reform, Garrick, Whitehall, and Thames Yacht, 429.  
 Clyde, gunboat, target practice of, to impress Arabs, 72.  
 Cochery, M., 390.  
 Coil, B.A., standard resistance, 23; testing and results shown, 45.  
 Colomb, Capt. (now vice-admiral), P. H. R. N., Morse code and signalling, 64 (note).  
 Colon-Jamaica cable, 290.  
 Committee, formulation of Electrical Standards, etc., 22.  
 Companies, see under Telegraph Cos.  
 Compound, Bright & Clark's, for outer cable covering, 25, 27.  
 Condensers, use of, in testing coils, 45.  
 Conductor, improvements in Persian Gulf cable, 41.  
 Copper, purification of, for Clark's segmental conductor, 43.  
 Core, for Gibraltar cable, 2; for tropical waters, 166.  
*Coromandel*, flagship Indian telegraph fleet, 55.  
 Correoso, President, Bright dines with, 233.  
*Cospatrick*, Indian cable squadron, 51.  
 Crawford and Balcarres, the Earl of, F.R.S., Fellow-Commissioner with Bright, Paris Exhibition, 386.  
 Crawford, Mr. R. W., M.P., and Turkish telegraph system, 141.  
 Crockett, Lieut., commanding the *Semiramis*, 58.  
 Cromer, opposition to telegraph posts at, 9.  
 Crompton & Co., Messrs. R. E., 358.  
 Crookes, Mr. J. P. E., electrician, Karachi-Fão cable expedition, 52; death from yellow fever, 182.  
 Croscombe lead mines, Bright's loss in, 324.  
 Crouch, Mr. A. P., a pupil of Bright, 402.  
 Cuba Submarine Telegraph Co., 186; cable between Batabano and Cienfuegos, 202.  
 Cuba-Jamaica cable laid, 213.  
 Culley, Mr. R. S., expert evidence of, 315.  
 Curtoys, Mr. C., Bright's candidature for Greenwich, 109.  
*Dacia* s.s., Bright takes over, 186; cable shipped on, 193; reported wrecked, 196; reaches West Indies, 196; arrives at Santiago, 208; arrives at Manzanilla Bay, 233; difficulty of "drifting" across cable, 284; proceeds to San Juan to provision, 287.  
*Daily News*, the, extract from, on Paris International Electrical Exhibition, 385.  
*Daily Telegraph*, the, on "The Anglo-Indian Electric line," 62, 66, 70.  
 Dale, Rev. Lawford, 440.  
 Dames, Mr., partner in New Mansfield Co., 323.  
 Death of Sir Charles Bright, 435.  
 Deptford included in Borough of Greenwich in 1865, 112.  
 Diary, Bright's, on laying West India cables, 236.  
*Diatomaceæ*, 292.  
 Direct English-Indian and Australian Submarine Telegraph Co., 160.  
 Direct United States cable, 377.  
 Disbrowe, Col., at Mussendom, 68; tact of, with Arabs, 75.  
 Dockyard labourers, Bright's attempt to improve pay of, 125.  
 D'Oksza, Count (Count Thaddeus Orzechowski), 6, 309.  
 Dolphins, 279.  
 Donaldson, Mr., Algiers-Toulon cable, 8.  
 Donovan, Mr. E., electrician, Karachi-Fão cable expedition, 52.  
 Dower, Captain, 193.  
 Dulfus, Baron, and Bright obtain railway concessions from Greek Government, 374.  
 Duplex Telegraphy, Bright and, 381.  
 "Durbar" of Arab chiefs, 72.  
 Earthquake at Santiago, 208.  
 Eastern extension, Australia and China Telegraph Co., 164.  
 Eastern Telegraph Co., 98, 163.  
 Eastern and Western Air Line Railway Co., 373.  
 "East India Communications," select committee on, 143; witnesses to, 144.  
 Easton, Amos & Anderson, Messrs., picking up apparatus, 190.  
 Edison Telephone Co., 355.  
 Edwards, Mr. Charles, M.P., 151.  
 Electric lighting, first experiments with, 357; Government Bill of 1882, 362; Bright's improvements in, 363;

Cambridge University Press

978-1-108-05289-4 - The Life Story of the Late Sir Charles Tilston Bright Civil Engineer: Volume 2

Edward Brailsford Bright and Charles Bright

Index

[More information](#)

## INDEX

- Bright's letter to *The Times* on, 364; select committee on, 366; Bristol, 368; letter on, to Mr. William Smith, 368.
- Electrical Review*, the, on Bright's Presidential address to Institution of Electrical Engineers, 393; Obituary notice of Bright, 436.
- Elliot, Sir George, Bart., M.P., 410.
- Elphinstone Inlet, telegraphic station at, 75.
- Engineering*, account of Colon-Jamaica cable, 293.
- Euplectella*, 292.
- Entertainments given to Bright, 273.
- Esselbach, Dr. Ernest, of Indo-European Telegraph Department, 22, 48.
- Falmouth, Gibraltar, and Malta Telegraph Co., 158; Bright and Mr. L. Clark, engineers to, 159.
- Fire alarms, by Brothers Bright, 342; adopted in London, 345; automatic system of, 346; prize awarded for, at Paris Exhibition, 387.
- Fish-bites, 271 (note).
- Fishing, Bright's fondness for, 413.
- Forbes, Prof. George, F.R.S.S., 372.
- Forde, Mr. H. C., accompanies Malta-Alexandria cable expedition, 3; engineer, "Red Sea" Co.'s line, 1858, 30.
- Foster, Prof. G. C., 22.
- Foster, Mr. H., C.B., evidence of, 315.
- France, Mr. J. R., of Silvertown Co., 193.
- Franco-German war, 211.
- Fraser, Colonel, Bright accompanies, on round of inspection, 266.
- Freeling, Colonel, 278.
- Freemasonry, Arabs answer Masonic signs, 71; Bright's interest in, 407; "Sir Charles Bright" Lodge at Teddington, 408.
- French officials, courtesy to Bright, 389.
- Frere, Sir Bartle, G.C.B., G.C.S.I., 56 (note).
- Funeral of Sir Charles Bright, 437.
- Galton, Capt. (Sir Douglas, K.C.B., D.C.L., LL.D., F.R.S.), Chairman of Submarine Telegraph Inquiry, 128.
- Garcke, Mr. Emile, 367.
- Gibbs, Mr. Douglas, 154; accident to, 416.
- Gibraltar, question of cable to, raised, 1.
- Gisborne, Mr. Lionel, engineer, "Red Sea" Co.'s line, 1858, 30.
- Gladstone, Right Hon. W. E., M.P., succeeds Bright as member for Greenwich, 172.
- Glaisher, Mr. James, founder of Aeronautical Society, 127.
- Glass, Elliot & Co., Messrs., construct Gibraltar cable, 2; lay Anglo-Continental cables for the "Magnetic," 11.
- Gleichen, Count (Prince Victor of Hohenlohe-Langenburg), 430.
- Globigerinæ*, 292.
- Goldsmid, Major (now Maj.-Gen. Sir F. J. Goldsmid, K.C.S.I., C.B.), 37.
- Director-General, Indo-European telegraph system, 94.
- Goldsmid, Sir Julian, Bart., 170.
- Government and telegraph companies, 167, 314; Bright's opposition to, 167.
- Grant, Sir John Peter, 273.
- Grant, Sir Patrick, G.C.B., visited by Bright at Malta, 154.
- Granville, Lord, letter to Bright, 386.
- Grapnels broken, 283.
- Gray, Mr. Matthew, West Indian extensions, 185.
- Gray, Mr. Robert Kaye, M.Inst.C.E., 193; a pupil of Bright, 399; illness of, 223.
- Great Eastern Railway Company, appreciation of Brothers Bright, 319.
- Greek Government, railway concession, 374.
- Greenwich election, the, 108.
- Greenwich, borough of, in 1865, 111; Bright's letter on re-nomination for, 169.
- Gurney, Mr. Samuel, 170.
- Gutta percha (Wharf Road) Co., core for Persian Gulf cable, 39.
- Gwadur (or Churbar), 34; cable section to Mussendom, 54, 58, 61; description of, 61; section of cable to Karachi, 84; importance of extension of line to Cape Monze, 85; section of cable from, to Cape Môaree, 89.
- Hanbury, Mr. John, equalization of poor rates, 168.
- Hargrove, Mr. Sidney, 320.
- Hargrove, Fowler & Blunt, Messrs., legal advisers to Bright, 320.
- Harleyford, shooting at, 416.
- Harman, Colonel Sir George, K.C.B., 277.
- Harris, Captain, 124.
- Havana, Bright goes to, 204.
- Havana and U.S.A. cable, 176.
- Hay, Vice-Admiral Sir J. C. D., Bart., 171.
- Hay, Lord William (Marquis of Tweeddale), vice-chairman of Eastern Telegraph Co., 163, 171.
- Henley, Mr. W. T., manufacture of cables to Balearic Islands, 5; contracts for manufacture of Persian Gulf cable, 39; manufacture of heavy cable length by, 51; manufactures for Telegraph Construction Co., 160.
- Heron-Maxwell, Sir John, 124.

Cambridge University Press

978-1-108-05289-4 - The Life Story of the Late Sir Charles Tilston Bright Civil Engineer: Volume 2

Edward Brailsford Bright and Charles Bright

Index

[More information](#)

## INDEX

- Hertz, Dr. Cornelius, 384 (note).  
 Hewett, Lieut., commanding gunboat *Clyde*, 61.  
 Hill, Mr. Frederick, witness for "East India Communications," 144.  
 Hill, Mr. Leslie C., 193; and Kucaina mines, 331; and Jamaica-Puerto Rica cable, 269.  
 Hirz, Mr. F., 48.  
 Hockin, Mr. C., 22.  
 Hoffman, Mr. Felix, engineer to Kucaina mines, 330.  
 Hooper, Mr. William, investigations on insulation of submersed cables, 24 (note); improvement in india-rubber cables, 134; core of, adopted by several telegraph companies, 136.  
 Horsfall, Mr. T. B., 171.  
 Howard, Mr. Thomas, 370.  
 Hubback, Mr. Joseph, chairman of British Electric Light Co., 357.  
 "Huckleberry" lines, 303.  
 Hughes, Prof. D. E., F.R.S., fellow-commissioner with Bright of Paris Exhibition, 386; reads paper thereon, 388.  
 Hunt, Mr. Ward, introduces bill for Government to acquire telegraph companies, 314.  
 Hunter, Capt. J. E., R.N., of H.M.S. *Vestal*, 198; and Jamaica-Porto Rico cable, 269; assistant manager to Kucaina mines, 331.
- India, see under "Telegraph to India."  
 India and the East, Bright's improvement in communication with, 140.  
 Indo-European Government telegraph system, duplication of, 137; Mr. F. C. Webb's report of, in *Engineering*, 137.  
 Indo-European Telegraph Co., formation and objects of, 98.  
 Inquiry into the construction of submarine telegraphs, 127, 128.  
 Insulation, testing conductor of Persian Gulf cable, 43.  
 Institution of Electrical Engineers, Bright elected President of, 392.  
*International* s.s., 194, 293.  
 International Ocean Telegraph Co., 181; illuminated address to Bright, 182.  
 Inventions of Sir Charles Bright, summary of, 445.
- Jackson, Mr. W. P., supporter of Bright at Greenwich election, 121.  
*Jamaica Despatch*, description of fleet at Port Royal, 216.  
*Jamaica Gleaner*, the, description of cable expedition, 209.  
 Jardine, Mr. David Jardine, 412.
- Javea Bay, 6.  
 Jee, Mr. Horace, 420.  
 Jenkin, Prof. Fleeming, and electrical standards and units, 22, 23 (note); investigations on insulation of submersed cables, 24 (note).  
 Johnson & Matthey, Messrs., test ore of Kucaina mines, 328.  
 Johnston, Col. Sir Henry, Bart., 273.  
 Joints, Clark's device for testing, 44.  
 Jones, Mr. W., Bright's election agent, 121.  
 Joule, Dr., J.P., F.R.S., 22.
- Karachi-Fão cable, section of, 54.  
 Karachi, section of cable from Gwadur, 84.  
 Kelk, Sir John, 171.  
 Kembal, Col., R. A. (Sir Arnold Kembal, K.C.B., K.C.S.I.), 86, 88.  
 Kemble, H. J., Mr., 229.  
 Kerl, Professor Bruno, reception of Bright, 323.  
 King, Mervyn, Mr., married to Bright's eldest daughter, 411; stays with, 371.  
 Kingston, Telegraph fleet proceeds to, 216; Municipal Board, Testimonial to Bright, 220; Entertainment to Bright at, 223; Bright leaves for Colon, 231.  
*Kirkham*, Indian cable squadron, 51; finishes part of cable-laying near Jask, 65.  
 Knight, Mr. F. W. A., a pupil of Bright, 402.  
 Kucaina, mines at, 325; description of, 326; country around, 333; inhabitants of, 334; stores at, 336; mines given up, 341.
- Lambert, Mr. Frank, assists in testing core for Persian Gulf cable, 47.  
 Land-line, from Fão, interference with, by Montefic Arabs, 85; Baghdad—Persian Gulf carried through, 93.  
 Langdon-Davies, Mr. C., inventor of the Phonophore, 382.  
 Lanyon, Major (Sir Owen), 273.  
 Laws, Mr. J. C., tests core for Persian Gulf cable, 47; electrical examination of Persian Gulf cable, 64; suggestion to obviate failure of joints, 90 (note).  
 Lechmere, Sir Edmund, 171.  
 Letters from Bombay, 55; to Lady Bright, Jan. 8th, 1869, 181; home, when at Servia, 339.  
 Leyland, Mr. Frederick, 420.  
 Library, Bright's, 307.  
 Lighting (see under Electric Lighting).  
 Lightning Protector, Bright's, 270.  
 Locke, Mr. John, Equalization of Poor Rates, 68.

## INDEX

- Loeffler, Mr. J. C. Ludwig, Arbitration case with Direct United States Co., 377.
- Lopez, Señor, accompanies Bright to Havana, 204.
- Lovett, Captain Cosby, 414.
- Lubbock, Sir John, F.R.S., 171.
- Luke, Mr. P. V., C.I.E., *The Early Telegraph to India*, by, 29 (note).
- Lynch, Major W. W., 277.
- Mackay, Mr. (the Silver King), 380.
- Mackay-Bennett Atlantic cable, 380.
- McLagan, Mr. Peter, 171.
- "Magnetic" Co., the, lines laid for, by Bright, 9; change underground system to overhead, 18.
- Maidanpek, copper mines at, 337.
- Malta, connecting line from Alexandria, 3.
- Mance, Mr. (now Sir H. C. Mance, C.I.E., M.Inst.C.E.), 48; inaugural address, Institution of Electrical Engineers, 102; electrician to Indian Government, 138; tribute to Bright, 395.
- Marion Moore*, Indian cable squadron, 51; cable laying, entrance to Persian Gulf, 65.
- Marseilles, Algiers, and Malta Telegraph Co., 158.
- Maryon-Wilson, Sir Thomas, Bart., 122.
- Massey, Right Hon. W. N., M.P., 164.
- Maxwell, Prof. J. Clerk, F.R.S., the question of Electrical Standards and Units, 20.
- Mediterranean, cables, 1; difficulties of cable laying in, 4.
- Mediterranean Extension Telegraph Co., 155.
- Melicete*, 193.
- Mijatovich, M. Chedomille, hospitality to Bright, 328.
- Milan, Prince, Brothers Bright visit, 329.
- Miller, Prof., 22.
- Mining, Bright's predilection for, 322.
- Moffat, Mr., "East India Communications," 143.
- Monarch*, H.M.T.S., 190 (note).
- Monze, Cape, extension from Gwador to, an important link, 85.
- Morris, Mr. Phil, A.R.A., friend of Bright, 420.
- Morse, Prof. Samuel, LL.D., Message to "Atlantic cables" banquet, 133.
- Morse Recorder, 4; flag and lamp signalling, 64 (note).
- Morse code, the, adaptation of, for signalling, 63.
- Moseley, Mr. T. B., electrician, Karachi-Fão cable expedition, 50, 84.
- Muirhead, Mr. John, inventor of electrically duplexing cables, 381.
- Munro, General, 277.
- Mussendom, cable section from Gwador, 54, 58, 61.
- Narva* s.s., 181.
- National Telephone Co., 356.
- Needlemakers' Co., Bright master of, 410.
- New Mansfield Co., Bright's connection with, 323.
- New Orleans, Brothers Bright at, 302.
- Newall, Messrs. R. S. & Co., contractors for "Red Sea" Co.'s lines, 1858, 30.
- Niagara Falls, 305.
- Nisch Railway, 376.
- Norfolk, cable from, to Hanover, 9.
- Northcote, Sir S., Bart., M.P. (first Earl of Iddesleigh), consults Bright as to Gibraltar cable, 1.
- Noverre, Mr. Arthur, congratulations from, to Lady Bright, 320.
- "Ocean Telegraph to India," the, 156.
- Oil of Tar as a solvent, 199.
- Oriental Telegraph Co., 151.
- Otway, Mr., M.P., 125.
- Pacific cable projects, 310.
- Pacific Ocean, great gap to be filled in telegraphic enterprise, 311.
- Palmerston, Lord, death of 167.
- Paris, proposed permanent exhibition at, 9; International Electrical Exhibition at, 384.
- Parkinson, Mr. J. C., J.P., D.L., author of *The Ocean Telegraph to India*, 156, 410.
- Parliamentary Committee, electrical units and standards, 21; transfer of telegraph companies, 315.
- Pruincefote, Sir Julian, 375 (note).
- Peel, Sir Charles Lennox, K.C.B., formation of Telegraph to India Co., 31.
- Pender, Mr. (Sir John, G.C.M.G., M.P.), leading part in early submarine cable enterprises, 163; chairman of Eastern Telegraph, etc., Co., 163; death of, 166.
- Penn, Mr. John, supporter of Bright at Greenwich election, 121.
- Persian Gulf Cable (see also under Telegraph to India), importance of, in history of submarine telegraphy, 99.
- Philbeach Gardens, the Brights remove to, 412.
- Phonophore, the, invented by Mr. C. Langdon-Davies, 382; Bright acts as first President of Syndicate, 383.

Cambridge University Press

978-1-108-05289-4 - The Life Story of the Late Sir Charles Tilston Bright Civil Engineer: Volume 2

Edward Brailsford Bright and Charles Bright

Index

[More information](#)

## INDEX

- Picking-up apparatus, improvement in, 186.
- Pickles, Sir C. Bright traced by his fondness for, 11.
- Pitch deposit, for insulation, 278.
- Pope, Mr. Samuel, Q.C., conducts railway assessment cases, 320.
- Possmann, Mr. Julius, *Official History of the Persian Gulf Telegraph Cables*, by, 101 (note).
- Preece, Mr. George, paper on "Cable Borers," 40 (note).
- Preece, Mr. W. H., C.B., F.R.S., "The Maintenance and Durability of Submarine Cables in Shallow Waters," 12; engineer-in-chief to Post Office, 316; "wireless" telegraphy, 317.
- Price-Williams, Mr. R., and railway companies, 318; and Bright in arbitration cases, 380.
- Prince, Mr. W. A., Bright's solicitor, 321.
- Puerto Rico-Jamaica cable, grappling for lost, 296.
- Purvis, Dr. (Vice-Admiral) Prior, supporter of Bright at Greenwich election, 121.
- Railways, Bright's connection with, 373.
- Railway companies, arbitrations with Post Office authorities, 318; Eastern and Western Air line, 373; Port Duluth and Winnipeg Junction, 373; Nisch, 376.
- Railways, light, 303.
- Ramsden, Mr. (Consul) F.W., hospitality to Bright, 208, 300.
- Rangoon, intended cable to Singapore, 2.
- Rawlinson, Sir Henry, K.C.B., proposal for land line along Mekran coast, 33.
- Rawson, Sir Rawson W., K.C.M.G., C.B., 263 (note); accompanies Bright on cable laying, 275.
- Red Sea and India Telegraph Co., formation and purpose of, 30.
- Reed, Sir E. J., K.C.B., M.P., F.R.S., supporter of Bright at Greenwich election, 122.
- Reform Club, Bright at, 429.
- Reid, Mr., pressure cylinder of, 45.
- Reminiscences of Bright, 272.
- Rival telegraph schemes, 160.
- Roberts, Mr. Shenstone, 420.
- Russell, Lord John, leader of Liberal party, 167.
- Russell, Sir William, Bart., 171.
- St. James's Pall Mall Electric Lighting Co., Bright engineer to, 371.
- St. Thomas', Morant Bay, address presented to Bright, 213; Bright arrives at, 269.
- St. Thomas, Bright leaves, for England, 269.
- Salomons, Alderman, Co.-M.P. for Greenwich, with Bright, 124.
- Samuda, Mr. Joseph d'Aguilar, M.P., 145; report on Suez and India mails, 146.
- Samuelson, Mr. (now Sir Bernhard, M.P.) 171.
- Santiago de Cuba, Bright at, 300.
- Saona Island, repairing cable off, 286.
- Saunders, Mr. J. B., yachting with Bright, 418.
- Sauty, Mr. C. V. de, chief electrician, Malta-Alexandria cable, 3.
- Sclater-Booth, Rt. Hon. George (Lord Basing), 171.
- Scudamore, Mr. F. I., expert evidence of, 315.
- Servia, war with Turkey, 341.
- Servian mines, 325.
- Sharks, Bright destroys, 280.
- Shat-el-Arab, the river, head of Persian Gulf, 33; predatory Arab tribes at, 92.
- Shooting, Bright's liking for, 413.
- "Shore-Ends," 192.
- Siemens, Mr. C. W. (Sir Wm. Siemens, D.C.L., F.R.S.), Malta-Alexandria cable, 3; committee on electrical units, 22; investigations on insulation of submersed cables, 24 (note); electrician, "Red Sea" Co.'s line, 1858, 30.
- Siemens Brothers, Messrs., construct Indo-European Co.'s system, 1870, 98, 358.
- Silica used to protect cable from augur-worms, 40.
- Silver & Co., Messrs., 181.
- Silvertown (India Rubber, Gutta Percha and Telegraph Works) Co., formation of, 100 (note); enlarge works, 186.
- Singapore, intended cable to Rangoon, 2.
- Sinde, H.M.S., arrives at Gwadar, 68.
- Sketches made by Bright during assessment cases, 320.
- Smith, Sir John Lucie, 273.
- Smith, General William F., West Indian cables, 185.
- Smith, Mr. William, electric lighting at Bristol, 368.
- Smith, Mr. Willoughby, originator of "Chatterton's Compound," 30 (note); chief electrician to Telegraph Construction Co., 153.
- Société, Internationale des Electriciens, Bright first British President of, 390.
- Sopwith, Mr. Thomas, C.E., F.R.S., 135 (note).
- Spagnoletti, Mr. C. E., M.Inst.C.E., fire alarm of, 352; friendship with Bright, 353.

## INDEX

- Spain connected with Balearic Islands, 4  
 Spanish National Submarine Telegraph Co., 309.  
 Stallibrass, Mr. Edward, A.M.Inst. C.E., paper on "Deep Sea Sounding in Connection with Submarine Telegraphy," 394; a pupil of Bright, 400.  
 Stallibrass, Mr. J. W., old schoolfellow of Bright, 400; Bright shoots with, 414.  
 Standards of electrical measurements, formulation of, 20.  
 Statham, Mr. Samuel, manager of the Gutta Percha Co., 18.  
 Statue of Christopher Columbus, Bright unveils, 233.  
*Stella* s.s., fitted out for laying Mediterranean cables, 5.  
 Stephenson, Sir Macdonald, promotion of Telegraph to India Co., 31; on cause of failure of Suez and Bombay cable, 1859, 145.  
 Stephenson, Mr. Robert, tests for cable coverings by, with Bright, 1.  
 Stewart, Mr. Balfour, 22.  
 Stewart, Capt. Colvin, 53.  
 Stewart, Col. Patrick, R.E., reports against Mekran coast land line, 33; appointed director Persian Gulf cable line, 38; travels with Bright overland to Bombay, 53; at Mussendom, 68; death of, 93; Bright's tribute to, 94.  
 Stiffe, Lieut. (now Capt.) A. W., survey of bed of Persian Gulf by, 37, 68 (note).  
 Suez-Aden line, failure of 1858 project, 30.  
*Suffolk* s.s., 193; proceeds to San Juan to provision, 287.  
 Swainson, Rev. Charles, Charlton Church, 122.  
 Sword-fish, interference with cables, 271.  
 Tarbutt, Mr. Percy, M.Inst.C.E., 193; and Kucaina mines, 331; a pupil of Bright, 400.  
 Taylor, Mr. J. E., 315.  
 Telegraph Companies (Submarine): Oriental, 151; Anglo-Mediterranean, 151; Mediterranean Extension, 155; British Indian Submarine, 155; Anglo-Indian, 155; Anglo-Australian and China, 157; China Submarine, 157; British-Indian Extension, 157; British-Australian, 157; Marseilles, Algiers and Malta, 158; Falmouth, Gibraltar and Malta, 158; Direct English-Indian and Australian Submarine, 160; Eastern, 163; Eastern Extension, Australia and China, 164; British Indian Extension, 164; China Submarine, 164; British Australian, 164; Western Union, 177; International Ocean, 181; West India and Panama, 186; Cuba Submarine, 186; Western and Brazilian, 308; Brazilian Submarine, 308; Central American, 308; Spanish National, 309.  
 Telegraph Construction and Maintenance Co., Contractors for Anglo-Mediterranean cable, 152.  
 Telegraph to India, failure of "Red Sea" Co.'s attempt, 1858, 30; formation of new company, 1862, 31; submarine cable decided on, 34; appointment of directors and engineers, 38; Persian Gulf cable, design and construction of, 39; completeness of tests, Persian Gulf cable, 48; laying Karachi-Fão cable, 53; landline connecting links, 91; communication with India, 98.  
 Telegraph to India: its extension to Australia and China, by Sir C. Bright, 41, 46 (note), 99.  
 Telegraph to India Co., formation of, 31; work Alexandria-Suez landline, 32.  
 Telegraph Purchase and Regulations Act, 313.  
 Telegraph service in 1866, 140.  
 Telephones, Bright takes up the subject of, 354.  
 Teredo, the (augur-worm), injuries by, Persian Gulf cable, 39.  
 Thompson, Prof. Silvanus, F.R.S., on Bristol electric lighting, 370.  
 Thomson, Prof. W. (Lord Kelvin), on "Electrical Units of Measurement," 21 (note); mirror-speaking instrument of, 64 (note); President of Institution of Electrical Engineers, 395; tribute to Bright, 395; steel wire sounding apparatus, 13 (note); marine galvanometer, the, 64 (note); Astatic reflecting galvanometer, 49.  
 Timberlake, Mr. W. G., 213 (note).  
*Times, The*, Report of Turkish and Indian telegraph systems, 142; Bright's letter to, on electric lighting, 364.  
*Times of India, The*, on experiences at Mussendom, 69.  
*Titian* s.s., 194.  
 Trinidad, Grenada, and Barbadoes cables, 268; Bright at, 278.  
 Tripoli, 4.  
*Tweed*, cable laid from, in Persian Gulf, 75.  
 Tweeddale, Marquis of (formerly Lord William Hay), prominent part taken by, in early submarine cable enterprises, 163; Masonic friend of Bright's, 408.



Cambridge University Press

978-1-108-05289-4 - The Life Story of the Late Sir Charles Tilston Bright Civil Engineer: Volume 2

Edward Brailsford Bright and Charles Bright

Index

[More information](#)

## INDEX

- Underhill, Mr. W. R., a pupil of Bright, 402.
- United Kingdom Telephone Co., 355.
- Units, electrical, formulation and nomenclature of, 20, 22.
- Valogodemard Dauphigné, Brothers  
Bright work mine at, 322.
- Varley, Mr. C. F., 22, 28.
- Vestal*, H.M.S., 198.
- Vicksburg, railway from, 304.
- Vivian, Sir Hussey, M.P., director of Croscombe lead mines, 324.
- Vogel, Sir Julius, K.C.M.G., 165.
- Volunteering, Bright's interest in, 404; Captain 7th Surrey Regiment, 404.
- Wales, H.R.H. the Prince of, Bright conducts over Paris Exhibition, 390.
- Walker, Mr. E. D., electrician Karachi-Fão cable expedition, 52.
- Walton, Mr. H. Izaak, director of Meksran coast telegraphs, 67; letter to *The Times* on whales, 139.
- Ward, Mr. Radcliffe, acting engineer to British Electric Light Co., 358.
- Weaver, Mr. Henry, expert evidence of, 315, 320.
- Webb, Mr. Edward Brainerd, 307; Bright's first professional connection with, 322; a pupil of Bright, 400.
- Webb, Mr. E. March, 193; a pupil of Bright, 400.
- Webb, Mr. Frank, assistance to Paris Exhibition, 390.
- Webb, Mr. F. C., skill in repairing fault in Bushire-Fão cable, 83; lays Gwador-Karachi section, 84, 89; graceful tribute to, and recollections of, Sir C. T. Bright, 104.
- Webber, Maj.-Gen. C.E., R.E., C.B., fellow commissioner with Bright, of Paris Exhibition, 386; founder of Society of Telegraph Engineers, 392.
- Webster, Mr. R. E. (Sir Richard, G.C.M.G., Q.C., M.P.), 320; counsel for Bright, 380.
- West Indian Colonies, Bright's scheme for linking together, 177.
- West India and Panama Telegraph Co., 186.
- West India cable discovered to be faulty, 198.
- West Indian Extensions, 185.
- Western and Brazilian Telegraph Co., 308.
- Western Union Telegraph Co., 177.
- Whales interfere with cables, 138.
- Wheatstone, Prof. (afterwards Sir Charles, F.R.S.), 22.
- Whitewash, use of, as protection for cable, 50.
- Wilkes, Mr., embracing tube for conductor, by, 41.
- William Cory*, the ("Dirty Billy"), 8.
- Williamson, Prof., 22.
- Wilmshurst, Mr. T. P., a pupil of Bright, 402.
- Wood, Right Hon. Sir C., G.C.B., (afterwards first Viscount Halifax), 34.
- Woods, Mr. J. E. Tennison, 50; special correspondent *Daily Telegraph*, 62; brings Kucaina mines to Bright's notice, 325; assistant manager of Kucaina mines, 331.
- Woodward, Mr. J. F. H., 408.
- Woolwich, included in borough of Greenwich in 1865, 112.
- Wortley, Rt. Hon. J. Stuart, 319.
- Yacht Club, Royal Thames, Bright's favourite resort, 430.
- Yachting, Bright's fondness for, 417.
- Zealous*, H.M.S., Bright visits, 233.