

- Manufactures, in 1865, 5-7;
effect of Civil War on, 16-17;
in early 20th century, 171
- Marsh, C. W., invents improvement to reaper, 154, 158
- Mercer, J. P., City Treasurer in Philadelphia, 127
- Mesaba iron ore range, 57
- Metropolitan Street Railway Company, 139 *et seq.*
- Metropolitan Traction Company, 139, 141 (note)
- Minnesota, iron fields of, 63-65
- Monopolies, *see* Industrial combinations
- Morgan, J. P., 81, 84, 168
- Morris and Company, 170
- Municipal government, *see* City government
- National Packing Company, 170
- National Tube Company, 81, 82
- New York Central Railroad, under Vanderbilt, 23-24; rebates granted by, 45-48
- New York City, telephones in, 88-89; street railways, 119; street railway corruption, 135-147
- Northcliffe, Lord, telephone demonstration, 86
- Oil, first "oil gusher," 4; "Oil Creek," 26-27; used as medicine, 27-28; Bissell's project, 28-29; Silliman's report, 28; "Drake's folly," 29; rush to oil-fields, 30; commercial importance, 31; in Middle West and West, 56; *see also* Standard Oil Company
- Osborne, D. M., manufactures farm machinery, 167
- Page, Dr. C. C., article on theory of sound, 96
- Pennsylvania, oil in, 26 *et seq.*
- Pennsylvania Railroad, rebates granted by, 44-46; monopoly in and out of Pittsburgh, 83
- Perkins, G. W., 81, 168
- Petroleum, *see* Oil
- Philadelphia, telephones in, 89; public utilities, 121 *et seq.*
- Phipps, Henry, associate of Carnegie, 59, 66, 69-70; receipts in 1900, 80
- Pittsburgh as steel center, 74-75
- Public utilities, 119 *et seq.*
- Public Utility Commissions, 148
- Pupin, M. I., invents "Pupin coil," 93, 103-05
- Pure Oil Company, 55, 56
- Railroads, of Civil War days, 2; combinations, 9, 23-24; *see also* Vanderbilt
- Rebates, to Standard Oil Company, 43-44, 48; to South Improvement Company, 45-46; to Carnegie, 76
- Reis, Philip, telephone experiments by, 96
- Rockefeller, J. D., 31 *et seq.*
- Rogers, H. H., associate of Rockefeller, 42
- Rural free delivery, 90
- Ryan, T. F., effects combinations of public utilities, 121; in Tammany Hall, 123; buys Chicago railway system, 126; life and character, 132-34; connection with New York street railways, 137, 138
- Salt manufacture, 27-28
- Sanders, Thomas, patron of Bell, 94, 95; refuses at first to finance telephone, 97; withdraws from telephone company, 113
- Schwab, C. M., 80; associate of Carnegie, 59, 66; personal characteristics, 70-71; reorganizes Homestead Works, 72-73; made President of Carnegie Company, 73; to be manager