

THE AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS
33 West 39th Street, New York



PERSONAL CLASSIFICATION SHEET

Read pages 2, 3 and 4 before filling out this blank

Please return this sheet with your data, even if you have filled out similar blanks for other organizations

Name in full Clarke - Charles Lorenzo Date April 9 - 1918
(Surname) (First name) (Second name)
 Mail address 109 Glenwood Boulevard
(Number) (Street)
Schenectady N. Y.
(City) (State)
 Telegraph address as above Telephone No 997-W Married? Yes Dependents? Son, in college
(If widower answer no.)
 Occupation or position Consulting Engineer in the
 Name of employer General Electric Company
 Location Schenectady Works
 Kind of business multifarious, electrical, steam, etc., too well known to need mention
 Birth: Year 1853 - Country United States When naturalized? in detail.
 Citizen of what country? United States
 Physical condition Recently examined, physician says perfect - normal heart and arteries.
 Education { Common School Yes College Bowdoin Course Civil Engineering Year graduated 1875
 High School Yes Portland, Me. (Name of College) Degree M.S. and C.E.
 Member of what engineering and technical societies? Amer. Inst. Electrical Engineers - 1884
Amer. Soc. Mechanical Engineers - 1882
N.Y. Electrical Society
 What foreign languages do you speak? French - German Fluently? No, but fairly Read? Yes
 In what countries have you resided and what years? As college post-graduate in Germany and France
in 1875 and 1876.
 In what countries traveled extensively? Germany, France, England - Business trips in 1900
and 1901; had to rely on own ability to speak French and German.
 What military or naval training? In college - two years infantry - one year first Lieut. artillery -
one year tactics and strategy - instructor later Major General
 Are you in active service or reserve? No Rank? Joseph P. Sanger, U.S.A.
 Member of what war committees? _____

Please review carefully pages 2, 3 and 4, and enter in the following spaces brief descriptions and symbols of the leading specialties in which you have had considerable experience. For example, the symbols for an inspector of underground electrical transmission systems would be "A7, B12, Fa 1b."

Specialties in which you have had greatest experience <small>(This table is for indexing purposes)</small>	Symbols of Specialties
<u>See written statements on following pages, and take</u>	<u>B 18</u>
<u>into account my long and wide engineering</u>	<u>B 16</u>
<u>experience, and with it the ability to read</u>	<u>B 2</u>
<u>and cooperatively handle men for a definite</u>	<u>Management</u>
<u>set objective.</u>	
Other Specialties	

INDUSTRIAL AND PROFESSIONAL EXPERIENCE

Check (✓) each division in which you have had sufficient experience to be of service. Use blank spaces as needed.

A BRANCHES OF ENGINEERING.

1 Aeronautics	
2 Automobile	✓10 Hydraulic
3 Architecture	11 Illuminating
4 Ballistics	12 Marine
5 Chemical	✓13 Mathematics
✓6 Civil	✓14 Mechanical
✓7 Electrical	15 Metallurgy
8 Gas	16 Metallography
9 Heating and Ventilating	17 Machine Shop Practice
	18 Mill (Textile, etc.)
	✓19 Military ?
	20 Mining
	✓21 Municipal
	22 Naval Architecture
	23 Navigation
	✓24 Patent Law
	✓25 Power
	26 Public Utility Service
	✓27 Physics
	✓28 Railroad
	29 Safety, Fire Prevention
	30 Telegraph, Telephone(see E-1-6)
	31 Welfare Work

B POSITIONS HELD IN "A".

Check the most important positions you have held, and follow by number of the branch checked under "A".
For example, a consulting heating and ventilating engineer should mark the list below as follows:
"✓2 Consulting Engineer A9."

1 Appraiser		
✓2 Consulting Engineer	✓8 Erecting Engineer	
✓3 Constructing Engineer	9 Estimator	17 Operating Engineer
4 Contractor	10 Executive, general	✓18 Organizing Engineer
✓4a Department Manager	10a Foreman	19 Production Engineer
✓5 Designer of Apparatus or Machinery	11 Industrial Engineer	20 Publicity Engineer
✓5a Designer of Plant	12 Inspector	21 Purchasing Agent
5b Economist	13 Laboratory Chief	22 Rate Setter
6 Draftsman	✓13a Laboratory Assistant	✓23 Research Engineer
7 Editor	14 Manufacturer	24 Sales Engineer
	15 Master Mechanic	25 Sales Manager
	✓16 Office Executive	✓26 Specification Engineer
		✓27 Superintendent
		28 Teacher
		✓29 Testing Engineer
		30 Works Manager
		31 Writer
		32
		33

RECORD OF EXPERIENCE.

Please give below an account of your engineering and technical experience, bringing out in particular any line in which you are especially proficient.

Give approximate dates of your experience in each case—*this is most important.*

Entire business life has been spent in connection with engineering affairs, technical, executive and organizing.

Began civil (A6-21) and railroad (A28) engineering in 1870, becoming 1st Asst. Engineer on old Boston & Maine Railroad.

Gave up position to take civil engineering course (A6-10-28) at college, 1871-75.

Designer (B5) and draughtsman (B6) on Bessemer, Siemens and other steel manufacturing plants (A14) in 1876.

Entered the laboratory of Thomas A. Edison, in 1880, at the time he invented the incandescent electric lamp, nominally as mathematical assistant (A13, B13), but quickly engaged in experimental (A27), testing (B29) and research (B23) work and then designing (B5) of electrical generators and other apparatus for Edison's first commercial system of lighting, (A7-14, B5-6).

In 1881, was chief engineer of the parent Edison Electric Light Company, and had engineering charge of the pioneer development and installation of the first system for central station and isolated plant lighting, organized and managed the engineering staff, research and testing departments, etc., and was consulting engineer of the allied operating companies (A7-11-14-27 and B2-5-8-16-18-26).

In 1884, design and manufacture of electrical indicating and recording apparatus (A7, B5-16-27).

In 1887, research and engineering on accumulators and applications to light and power (A7, B23).

In 1889, consulting engineering (B2) and patent experting (A24); have testified in many patent suits, and also before public service commissions.

In 1901, consulting engineer and patent expert in the Board of Patent Control, of the General Electric Company and the Westinghouse Electric & Manufacturing Company (A24, B2).

In 1913, consulting engineer on the staff of the General Electric Company, at the main office and works, Schenectady, N. Y., where my duties to date, have embraced multifarious lines, under divisions A7-13-14-27 and B5-23-29.

For thirty-eight years I have been connected in engineering with progress--with investigation and development of new things.

INDEXING SCHEDULE

EXPERIENCE IN DETAIL

Check each subdivision in which you have had experience, adding subdivisions and sub-subdivisions as needed.

Your entries in the following schedule are for indexing purposes.

C AGRICULTURAL MACHINERY AND IMPLEMENTS (Including Farm Tractors and the Application of Electricity)	G FUELS AND COMBUSTION (See also Q , Oil and Gas Supply)	I MACHINERY AND TOOLS (Continued)	K INDUSTRIAL MACHINERY
1 2	1 Coal 2 Coke 3 Low-grade Fuels 4 Blast-furnace and Coke-oven Gas 5 Producer Gas 6 Boiler Furnaces a Stokers b	6 Forge Shop Equipment (See also N) a Steam and Air Hammers b Bulldozers c 7 Welding Equipment a Electric b Oxy-acetylene c	1 Cement 2 Dairying 3 Flour-milling 4 Mining and Ore-dressing 5 Paper and Pulp 6 Logging 7 Saw-mill 8 Shoe 9 Sugar 10 Textile 11 Wood-working 12
D AVIATION	7 Industrial Furnaces 8 Oil-burning Equipment 9 Powdered-fuel Equipment	J ENGINEERING MACHINERY	13
1 Aeroplanes 2 Hydro-aeroplanes 3 Balloons and Dirigibles (Including Production of)		1 Air Machinery	

The instructions appear to call for the checking of those divisions and sub-divisions in which the engineer may be of profitable service in some one or more capacities out of the total number possible under each of such divisions, and not to limit him to checking only those that he knows all about from A. to Z. For few engineers are so versatile nowadays as fully to cover several divisions and especially sub-divisions, with the ready completeness of a narrow specialist, who has centered his life on one or two subjects under the sub-divisions, and thus lacks breadth and capacity for dealing effectively with unusual engineering emergencies, which are bound to arise in stress of war time.

Only those sub-divisions have been checked under "Specific" subjects that have the most salient bearing on my experience, but I believe that I can render effective service in some capacity under at least one-fourth of the sub-divisions listed, following from my long and wide engineering experience. But the best use of such abilities as I have would, in my judgement, be in a cooperatively directing or organizing capacity.

Fa ELECTRICAL TRANSMISSION AND DISTRIBUTION	2 Machine Tools (Specify what tools)	5 Mining	2 Non-ferrous Metals
1 Transmission Systems a Overhead b Underground 2 Distributing Systems a Overhead b Underground 3 Circuit Protection 4 Wiring of Buildings and Ships 5 Wires and Cables	a b c d Grinding Machines e Polishing Machinery 3 Small Tools 4 Gages, Jigs and Fixtures 5 Metal-working Machinery a Bending and Straightening Machines b Shearing Machines c Power Presses d Wire-drawing Machines	a Drilling b Draining c Dredging d Excavating e Hydraulic f Quarrying g Tunnelling h 6 Chemical Plant Equipment a Evaporators b Drying Apparatus c 7 Fire Extinguishing Machines a Sprinklers b Engines c Chemical d	a Alloys b Aluminum and Magnesium c Antimony, Bismuth, and Cadmium d Brass and Bronze e Chromium and Manganese f Copper g Gold and Silver h Iron and Steel i Lead j Mercury k Nickel and Cobalt l Platinum Metals m Radium and Uranium n Silicon and Titanium o Sodium p Tin q Tungsten r Zinc
6			s

B2 A7 Consulting Engr. (G. E.)
 B23 A27 Research Engr.
 B5a A14 Designer (Bassmer, Siemens, etc.)
 B29 A7 Testing Engr.

F, Fa1, Fa2, Fa3, O1, O2, R1, R4, U, Z7a