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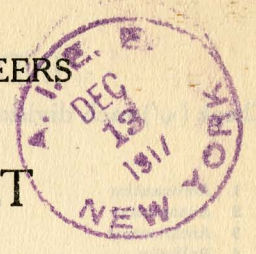
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Form 183-10000-11-17.

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 Hering, Carl Date Dec. 11 1917
(Surname) (First name) (Second name)

Mail address 210 South 13th St
(Number) (Street)
Phila Pa
(City) (State)

Telegraph address Phila Telephone No. 4747 Married? no Dependents? yes
(If widower answer no.)

Occupation or position consulting electrical engineer

Name of employer none

Location as above

Kind of business consulting

Birth: Year 1860 Country U. S. When naturalized? _____

Citizen of what country? U. S.

Physical condition good for my age

Education { Common School _____ College Univ. of Pa. Course M. E. Year graduated 1880
 High School _____ Degree B. S., M. E., D. Sc.
 Private sch. X

Member of what engineering and technical societies? A. I. E. E., A. E. S., I. E. S., Eng. Club Phil. etc.

What foreign languages do you speak? French & German Fluently? no Read yes

In what countries have you resided and what years? France & Germany for a short time.

In what countries traveled extensively? none

What military or naval training? none

Are you in active service or reserve? no Rank? none

Member of what war committees? none

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>Testing, research work, in electricity & physics</u>	<u>A7, 24, 25</u>
<u>Thermal engineering, electric furnaces</u>	<u>B2, 6, 7, 23, 28</u>
	<u>I 9a</u>
	<u>M5, N4, Z6</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	10 Hydraulic	19 Military	28 Railroad
2 Automotive	11 Illuminating	20 Mining	29 Safety, Fire Prevention
3 Architecture	12 Marine	21 Municipal	30 Telegraph, Telephone (see E1-6)
4 Ballistics	13 Mathematics	22 Naval Architecture	
5 Chemical	14 Mechanical	23 Navigation	
6 Civil	15 Metallurgy	24 Patent Law	31 Welfare Work
7 Electrical	16 Metallography	25 Power	
8 Gas	17 Machine Shop Practice	26 Public Utility Service	32
9 Heating and Ventilating	18 Mill (Textile, etc.)	27 Physics	

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

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.

Teacher in physics, electricity, several years (1882, 3, 7)

Designer of electrical apparatus several years (1883-5)

Consulting, testing, research, reports, chiefly electrical about 30 yrs (1887 & date)

Electric furnaces, thermal engineering 5-10 yrs (1908 to date)

Editor, compiler, wrote several books, (1887 & date)

Continue on a separate sheet if necessary.

I have filled out quite a number of similar blanks.

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 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	1 Coal 2 Coke 3 Low-grade Fuels 4 Blast-furnace and Coke-oven Gas 5 Producer Gas 6 Boiler Furnaces a Stokers b 7 Industrial Furnaces 8 Oil-burning Equipment 9 Powdered-fuel Equipment 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	6 Forge Shop Equipment (See also N) a Steam and Air Hammers b Bulldozers c 7 Welding Equipment a Electric b Oxy-acetylene c 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	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 13 14 Specialty Machines a Adding b Envelope c Sewing d Typewriters e Weighing f 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33
D AVIATION	H HEATING AND VENTILATING	J ENGINEERING MACHINERY	L MATERIALS
1 Aeroplanes 2 Hydro-aeroplanes 3 Balloons and Dirigibles (Including Production of Hydrogen) 4 Engines 5 Fuselages and Planes 6 Parts and Instruments 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	1 Hot-air 2 Steam and Hot-water 3 Vacuum Systems 4 Ventilating Systems 5 Air-conditioning 6 Central Plants 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	1 Air Machinery a Compressors b Pneumatic Tools c Fans and Blowers d Turbo-blowers e 2 Pumps a Centrifugal b Direct-acting c Hydraulic-pressure d Pumping Engines e 3 Refrigerating a Ice Making b Cold Storage c 4 Hoisting and Conveying a Conveyors b Cableways c Cranes and Hoists d Elevators and Escalators e Pneumatic Tube Systems f 5 Mining a Boring 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 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	1 Iron and Steel a Cast Iron b Malleable Iron c Wrought Iron d e Alloys f Cast Steel g High-speed Steel h Steel Castings i Structural Steel k Manufactured Product (See L-5) l Cold-drawn Steel m 2 Non-ferrous Metals 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 s
E COMMUNICATION	Ha LIGHTING (Electricity, Gas, Oil)		
1 Cables 2 Signal Systems 3 Telegraph 4 Telephone 5 Radio 6 Light Rays 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	1 Residence 2 Industrial 3 Street 4 Head-lighting 5 Flood-lighting 6 Picture Projection 7 Shades, Reflectors, Fixtures 8 Lamps (See I5, Z7)		
F ELECTRICAL APPARATUS See also I-7, M-5, N-4, R-4, S-1, U & Z	I MACHINERY AND TOOLS		
1 Generators 2 Motors and Converters 3 Transformers 4 Lamps (see Ha) 5 Batteries 6 Controlling Devices 7 Magnets and Solenoids 8 Switchboards 9 Heaters 10 Rectifiers 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	1 Machine Parts a Ball and Roller Bearings b Gears c 2 Machine Tools (Specify what tools) 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		
Fa ELECTRICAL TRANSMISSION AND DISTRIBUTION			
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 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33			

B2 A7 Consulting Engr.
B23 A7 Research Elec. Furnaces
B5 A7 Design Elec. App.
B29 A7 Testing Engr.
I 7b, N4, Z6

INDEXING SCHEDULE

(Continued)

L MATERIALS (Continued)

- 3 Non-Metals
 - a Abrasives
 - b Asbestos
 - c Belting Materials
 - d Insulating Materials
 - e Lubricating Oils
 - f Carbon Products
 - g Concrete, Reinforced Concrete
 - h Timber
 - i
- 4 Chemicals
 - a Acids, Alkalies and Salts
 - b Alcohol and Acetone
 - c Ammonia
 - d Analytical Chemistry
 - e Barium Compounds
 - f Cement, Lime (see L-3)
 - g Coke and Tar
 - h Dyes and Textiles
 - i Explosives (high)
 - j Explosives (black powder)
 - k Fats and Soaps
 - l Fertilizers
 - m Foods
 - n Glass and Ceramics
 - o Inorganic Chemicals
 - p Nitrogen (synthetic)
 - q Organic Chemicals (other than b)
 - r Paints and Varnish
 - s Petroleum and Asphalt
 - t Pharmaceuticals
 - u Pyrotechnics
 - v Rubber and Allied Substances
 - w Sugar, Starch, and Gums
 - x Toluol, Benzol
 - y Wood Products
- 5 Supplies
 - a Bolts and Nuts
 - b Brass Products
 - c Pipe and Fittings
 - d Tubes
 - e Wire
 - f

M MEASURING AND TESTING APPARATUS

- 1 Calipers and Gages
- 2 Pressure Gages
- 3 Flow Meters
- 4 Dynamometers
- 5 Electrical Instruments
- 6 Pyrometers
- 7 Recording Instruments
- 8 Testing Machines
- 9 Weighing Apparatus
- 10 Photometers

11

N METALLURGICAL EQUIPMENT

(For Heat-treatment, etc., see Z)

- 1 Foundry Equipment (Specify what equipment)

a

N METALLURGICAL EQUIPMENT (Continued)

- 2 Iron and Steel Works Equipment
 - a Blowing Engines
 - b Coke oven (including by-product) Equipment
 - c Rolling Mill Equipment

d

- 3 Forging Equipment
 - a Forging Presses

b

- 4 Electric Furnace

O MUNICIPAL AND COMMUNITY

- 1 Pavements and Roads
- 2 Sewerage and Water Supply
- 3 Irrigation

P MUNITIONS

- 1 Artillery
- 2 Machine Guns
- 3 Rifles
- 4 Side Arms
- 5 Explosives
- 6 Shells
- 7 Fuses
- 8 Cartridges
- 9 Aircraft Bombs
- 10 Torpedoes
- 11 Mines
- 12 Grenades

13

Q GAS MANUFACTURE AND SUPPLY

- 1 Coal Gas Plant
- 2 Water Gas Plant
- 3 Pintsch Gas Plant
- 4 Distribution System
- 5 Lamps (see Ha)

6

Qa OIL AND NATURAL GAS SUPPLY

- 1
- 2 Natural Gas Wells Equipment
- 3 Natural Gas Distribution
- 4 Oil Well Equipment
- 5 Oil Distribution
- 6 Oil Refining
- 7 Lamps (see Ha)

8

R POWER GENERATION

- 1 Steam Power and Plant Equipment (For Furnaces see G)
 - a Boilers
 - b Superheaters
 - c Economizers
 - d Feedwater Heaters
 - e Engines

R POWER GENERATION (Continued)

- f Turbines
- g Condensers
- h Piping, Valves and Fittings
- j Steam Specialties

- 2 Gas Power and Plant Equipment

- a Gas Producers
- b Blast Furnace and Coke-oven Gas Equipment
- c Gas Engines
- d Oil Engines
- e Gasoline Engines
- f High-speed Gasoline Engines

g

- 3 Hydraulic Power and Plant Equipment

- a Turbines

b

- 4 Electric Light and Power

- a Central Stations
- b Isolated Plants

c

- d Substations

S POWER TRANSMISSION

- 1 Electric
 - a Motor Drive
 - b Motor Control

c

- 2 Belt Transmission

- a Shafting
- b Pulleys

c

- 3 Rope Transmission

- 4 Chain Transmission

- 5 Gearing
 - a Reduction Gearing

b

T SHIPS

- 1 Merchant Ships and Transports (Specify wood or steel)

- 2 Warships
- 3 Patrol Boats
- 4 Small Boats, Yachts
- 5 Submarines
- 6 Trawlers and Mine Sweepers

7

U STRUCTURES AND BUILDINGS

- 1 Foundations
- 2 Factories
- 3 Tanks
- 4 Power Houses
- 5 Docks, Dikes, Levees
- 6 Bridges
- 7 Dams

8

U TRANSPORTATION

- 1 Animal
- 2 Automobiles (Specify whether gasoline, electric or steam)

- a Pleasure Cars
- b Road Tractors
- c Trucks
- d Motor Cycles
- e Motors
- f Accessories and Parts

g

- 3 Railway, Electric

- a Maintenance of Way
- b Valuation
- c Trolley Cars
- d Gasoline-electric Cars
- e Car Barns and Sheds
- f Electrolysis Prevention

g

- 4 Railroad, (Steam or Electric) (Specify whether steam or electric)

- a Maintenance of Way
- b Cars
- c Locomotives
- d Brakes
- e Locomotive Terminals and Equipment
- f Signals

g

- 5 Railway, Industrial

- 6 Marine

- a Boilers
- b Oil-burning Equipment
- c Steam Engines
- d Oil and Gasoline Engines
- e Turbines
- f Electric Drive
- g Propellers
- h Steering Gear

j

- 7 Canal

- a Electric

b

W

X

Y

Z MANUFACTURING AND SPECIAL PROCESSES

- 1 Machine Shop Processes
- 2 Cement Manufacture
- 3 Paper Manufacture
- 4 Textile Manufacture
- 5 Electrochemical
- 6 Electrometallurgical
- 7 Special Processes

(Please add any processes with which you have had experience).

- a Dynamic Balancing
- b Die Casting
- c Heat Treatment
- d Metal Coating
- e Wood Preservation
- f Lamp Manufacture

g