

1387

slh
JUN 13 '18

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 Smith, Harold Babbitt Date NOV 13th 1917
(Surname) (First name) (Second name)

Mail address Worcester Polytechnic Institute, Salisbury St.
Worcester, Mass.
(Number) (Street) (City) (State)

Telegraph address as above Telephone No. { Pak 6822 " 3534-M Married? yes Dependents? yes
(If widower answer no.)

Occupation or position Prof. of Electrical Engineering - Consulting Engineer

Name of employer Worcester Polytechnic Institute, Westinghouse Elect & Mfg. Co.

Location Worcester, Mass. Pittsburgh, Pa.

Kind of business Educational Engineering & Mfg.

Birth: Year 1869 Country U.S.A. When naturalized?

Citizen of what country? U.S.A.

Physical condition Good

Education { Common School yes High School yes College Cornell Univ. Course E.E. Year graduated 1891
(Name of College) Degree M.E.

Member of what engineering and technical societies? see sheet inserted

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

In what countries have you resided and what years? Europe Africa Asia 1911-13 - see insert

In what countries traveled extensively? as above

What military or naval training? military course at Cornell Univ.

Are you in active service or reserve? no Rank? ---

Member of what war committees? Asso. member Naval Consulting Board. work with Special Board of Navy Dept.

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>Electrical Engineering</u>	<u>A-7</u>
<u>Electrical Engineering Design</u>	<u>B-5</u>
<u>Consulting Electrical Engineer</u>	<u>B-2</u>
<u>Research Electrical Engineer</u>	<u>B-23</u>
<u>Electrical Engineering Teaching</u>	<u>B-28</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 A-7 |
| 2 Consulting Engineer A-7 | 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 A-7 | 12 Inspector | 22 Rate Setter | |
| 5a Designer of Plant | 13 Laboratory Chief A-7 | 23 Research Engineer A-7 | 32 |
| 5b Economist | 13a Laboratory Assistant | 24 Sales Engineer | |
| 6 Draftsman A-7-14 | 14 Manufacturer | 25 Sales Manager | |
| 7 Editor | 15 Master Mechanic | 26 Specification Engineer | |
| | 16 Office Executive | 27 Superintendent | 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.

See sheets inserted.

- B28 A7 Prof. L. E. (Worcester Poly. Inst.)
 B2 A7 Lowell, Long.
 B23 A7 Research Long.
 B5 A7 Design Elec. Equip.

F, Fa1a, S1

Continue on a separate sheet if necessary.

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 | 1 Coal | 6 Forge Shop Equipment
(See also N) | 1 Cement |
| 2 | 2 Coke | a Steam and Air Hammers | 2 Dairying |
| | 3 Low-grade Fuels | b Bulldozers | 3 Flour-milling |
| | 4 Blast-furnace and Coke-oven Gas | c | 4 Mining and Ore-dressing |
| | 5 Producer Gas | | 5 Paper and Pulp |
| | 6 Boiler Furnaces | 7 Welding Equipment | 6 Logging |
| | a Stokers | a Electric | 7 Saw-mill |
| | b | b Oxy-acetylene | 8 Shoe |
| | | c | 9 Sugar |
| | 7 Industrial Furnaces | | 10 Textile |
| | 8 Oil-burning Equipment | | 11 Wood-working |
| | 9 Powdered-fuel Equipment | | 12 |
| D AVIATION | | J ENGINEERING MACHINERY | 13 |
| 1 Aeroplanes | | 1 Air Machinery | 14 Specialty Machines |
| 2 Hydro-aeroplanes | | a Compressors | a Adding |
| 3 Balloons and Dirigibles
(Including Production of Hydrogen) | | b Pneumatic Tools | b Envelope |
| 4 Engines | | c Fans and Blowers | c Sewing |
| 5 Fuselages and Planes | | d Turbo-blowers | d Typewriters |
| 6 Parts and Instruments | | e | e Weighing |
| 7 | | 2 Pumps | f |
| | H HEATING AND VENTILATING | a Centrifugal | |
| | 1 Hot-air | b Direct-acting | L MATERIALS |
| | 2 Steam and Hot-water | c Hydraulic-pressure | 1 Iron and Steel |
| | 3 Vacuum Systems | d Pumping Engines | a Cast Iron |
| | 4 Ventilating Systems | e | b Malleable Iron |
| | 5 Air-conditioning | | c Wrought Iron |
| | 6 Central Plants | 3 Refrigerating | d |
| | 7 | a Ice Making | e Alloys |
| | | b Cold Storage | f Cast Steel |
| | Ha LIGHTING
(Electricity, Gas, Oil) | c | g High-speed Steel |
| | 1 Residence | | h Steel Castings |
| | 2 Industrial | 4 Hoisting and Conveying | i Structural Steel |
| | 3 Street | a Conveyors | k Manufactured Product
(See L-5) |
| | 4 Head-lighting | b Cableways | l Cold-drawn Steel |
| | 5 Flood-lighting | c Cranes and Hoists | m |
| | 6 Picture Projection | d Elevators and Escalators | |
| | 7 Shades, Reflectors, Fixtures | e Pneumatic Tube Systems | 2 Non-ferrous Metals |
| | 8 Lamps (See I5, Z7) | f | a Alloys |
| | | | b Aluminum and Magnesium |
| F ELECTRICAL APPARATUS
See also I-7, M-5, N-4, R-4, S-1, U & Z | I MACHINERY AND TOOLS | 5 Mining | c Antimony, Bismuth, and Cadmium |
| 1 Generators | 1 Machine Parts | a Boring | d Brass and Bronze |
| 2 Motors and Converters | a Ball and Roller Bearings | b Draining | e Chromium and Manganese |
| 3 Transformers | b Gears | c Dredging | f Copper |
| 4 Lamps (see Ha) | c | d Excavating | g Gold and Silver |
| 5 Batteries | | e Hydraulic | h Iron and Steel |
| 6 Controlling Devices | 2 Machine Tools
(Specify what tools) | f Quarrying | i Lead |
| 7 Magnets and Solenoids | a | g Tunnelling | j Mercury |
| 8 Switchboards | b | | k Nickel and Cobalt |
| 9 Heaters | c | 6 Chemical Plant Equipment | l Platinum Metals |
| 10 Rectifiers | d Grinding Machines | a Evaporators | m Radium and Uranium |
| 11 | e Polishing Machinery | b Drying Apparatus | n Silicon and Titanium |
| | f | c | o Sodium |
| Fa ELECTRICAL TRANSMISSION AND DISTRIBUTION | 3 Small Tools | 7 Fire Extinguishing Machines | p Tin |
| 1 Transmission Systems | 4 Gages, Jigs and Fixtures | a Sprinklers | q Tungsten |
| a Overhead | 5 Metal-working Machinery | b Engines | r Zinc |
| b Underground | a Bending and Straightening Machines | c Chemical | |
| 2 Distributing Systems | b Shearing Machines | | |
| a Overhead | c Power Presses | | |
| b Underground | d Wire-drawing Machines | | |
| 3 Circuit Protection | | | |
| 4 Wiring of Buildings and Ships | | | |
| 5 Wires and Cables | | | |
| 6 | | | |

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
- k
- 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