(3170)

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 Stillwell, Lewis Buckley (Surname, First name, Second name) Date Nov. 14 1917

Mail address 100 (Number) Broadway (Street)

Mount Vernon (City) N. Y. (State)

Telegraph address ..... Telephone No. Rector 4320 Married? Yes (If widower answer no.) Dependents? Mrs.

Occupation or position Consulting Engineer

Name of employer .....

Location .....

Kind of business .....

Birth: Year 1863 Country U. S. A. When naturalized? .....

Citizen of what country? U. S. A.

Physical condition Good

Education { Common School ..... / High School ..... / ..... } College Lehigh (Name of College) Course Electrical Year graduated 1885 Degree E. E.

Member of what engineering and technical societies? A. I. E. E., Am. S. M. E., British Inst. of E. E., etc.

What foreign languages do you speak? ..... Fluently? ..... Read .....

In what countries have you resided and what years? .....

In what countries traveled extensively? Gt. Britain, France, Italy, Germany

What military or naval training? None

Are you in active service or reserve? No Rank? .....

Member of what war committees? National Research Council

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 (This table is for indexing purposes)	Symbols of Specialties

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 Automotive
- 3 Architecture
- 4 Ballistics
- 5 Chemical
- 6 Civil
- ✓ 7 Electrical
- 8 Gas
- 9 Heating and Ventilating
- ✓ 10 Hydraulic
- ✓ 11 Illuminating
- 12 Marine
- 13 Mathematics
- 14 Mechanical
- 15 Metallurgy
- 16 Metallography
- 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 E1-6)
- 31 Welfare Work
- 32

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 A7
- 3 Constructing Engineer
- 4 Contractor
- 4a Department Manager
- 5 Designer of Apparatus or Machinery
- 5a Designer of Plant
- 5b Economist
- 6 Draftsman
- 7 Editor
- 8 Erecting Engineer
- 9 Estimator
- 10 Executive, general
- 10a Foreman
- 11 Industrial Engineer
- 12 Inspector
- 13 Laboratory Chief
- 13a Laboratory Assistant
- 14 Manufacturer
- 15 Master Mechanic
- 16 Office Executive
- 17 Operating Engineer
- ✓ 18 Organizing Engineer A26
- 19 Production Engineer
- 20 Publicity Engineer
- 21 Purchasing Agent
- 22 Rate Setter
- ✓ 23 Research Engineer A7
- 24 Sales Engineer
- 25 Sales Manager
- 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.*

Asst. Electrician, Westinghouse Electric Company, 1886-1890; Laboratory and Development Work.
Chief Electrician, Westinghouse Electric & Manufacturing Company, 1890-1897.
Electrical Director, Niagara Falls Power Company and Cataract Construction Company, 1897-1900.
Consulting Electrical Engineer to
Manhattan Railway Company
Hudson & Manhattan Railroad Company
Lehigh Navigation Electric Company
United Railways & Electric Company
Interborough Rapid Transit Company
New York Municipal Railway Corporation,
etc., etc., 1900-1917.

✓ B2 | A7 Consult Elec Engr (00-date) { Manhattan Ry. Co / Hudson & Manhattan Ry Co / United Rys. & Elec. Co. / I. R. T.
B10 | A25 Elec Director (Niagara Falls Pr. Co. (3 yrs.)
F, Fa, R4, S1, S2, V5

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)

- 1
- 2

D AVIATION

- 1 Aeroplanes
- 2 Hydro-aeroplanes
- 3 Balloons and Dirigibles (Including Production of Hydrogen)
- 4 Engines
- 5 Fuselages and Planes
- 6 Parts and Instruments
- 7

E COMMUNICATION

- 1 Cables
- 2 Signal Systems
- 3 Telegraph
- 4 Telephone
- 5 Radio
- 6 Light Rays
- 7

F ELECTRICAL APPARATUS

See also I-7, M-5, N-4, R-4, S-1, U & Z

- ✓ 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

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

G FUELS AND COMBUSTION

(See also Q, Oil and Gas Supply)

- 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

H HEATING AND VENTILATING

- 1 Hot-air
- 2 Steam and Hot-water
- 3 Vacuum Systems
- 4 Ventilating Systems
- 5 Air-conditioning
- 6 Central Plants
- 7

Ha LIGHTING

(Electricity, Gas, Oil)

- 1 Residence
- 2 Industrial
- 3 Street
- 4 Head-lighting
- 5 Flood-lighting
- 6 Picture Projection
- 7 Shades, Reflectors, Fixtures
- 8 Lamps (See I5, Z7)

I MACHINERY AND TOOLS

- 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
  - e

I MACHINERY AND TOOLS (*Continued*)

- 6 Forge Shop Equipment (See also N)
  - a Steam and Air Hammers
  - b Bulldozers
  - c
- 7 Welding Equipment
  - a Electric
  - b Oxy-acetylene
  - c

J ENGINEERING MACHINERY

- 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

K INDUSTRIAL MACHINERY

- 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

L MATERIALS

- 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
  - j Structural Steel
  - k Manfactured 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

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