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LAG.

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

V L C L C L					
Name in full Alemelly Withu Column Date 13 - No (Surname) (Surname)	1917				
Mail address Harvard University (Street)					
Name in full Kennelly arthur Edwin Date 13 k Mail address Mail address (Surname) (First name) (Second name) Harvard University (Street) (City) (State)	New York				
Telegraph address Telephone No. Married? yes Depender	nts? yes				
Occupation or position Professor of Elect. Engineering Humand and Name of employer Haward University also consultry else engr.	d Mass. Inst Te				
Location Cambridge					
Kind of business Teaching and learning					
Birth: Year 1861 Dec. Country Hindustan When naturalized? 1906 Citizen of what country? United States	2				
Citizen of what country? United States					
Physical condition Dound					
Education Common School College None Course Year grade (Name of College) Degree Sc. D (hon)	luated				
Member of what engineering and technical societies? Past Pres A 1 E E Past Pres 1998 - 1909	Ill Engy doc, Past has				
What foreign languages do you speak the town was made in the first the first to the first t	-i ccaa				
In what countries have you resided and what years? France + Belgium at ac	hool also lbain				
In what countries traveled extensively? Europe very generally asia and	africa some pa				
What military or naval training? Merely school military training	<u> </u>				
Are you in active service or reserve?					
Member of what war committees? None important					
Please review carefully pages 2, 3 and 4, and enter in the following spaces brief description of the leading specialties in which you have had considerable experience. For example, the inspector of underground electrical transmission systems would be "A7, B12, Fa1b."					
Specialties in which you have had greatest experience (This table is for indexing purposes)	Symbols of Specialties				
Dubmarine telegraph cables (Engineer in charge of such work)	A BAN BAN				
Electrical engineering consulting and research					
Continue on a superior in the latest and a superior of the sup					

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	a the man that it	
5	Chemical	14	Mechanical	- 23	Navigation	0.1	W 10 W 1
6	Civil	15	Metallurgy	24	Patent Law	31	Welfare Work
~ 7	Electrical Electrical	16	Metallography	- 25	Power		
8	Gas	17	Machine Shop Practice	26	Public Utility Service	32	
9	Heating and Ventilating	18	Mill (Textile, etc.)	V 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		
V-5	Designer of Apparatus or	12	Inspector	22	Rate Setter		
	Machinery	13	Laboratory Chief	- 23	Research Engineer	32	
5a	Designer of Plant	13a	Laboratory Assistant	24	Sales Engineer	34	
5b	Economist	14	Manufacturer	25	Sales Manager		
6	Draftsman	15	Master Mechanic	26	Specification Engineer		
w 7	Editor	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.

Telegraph Operator (morse, minor and siphon recorder) 1876-1878.

Telegraph Cable Asst Electrician 1878-1880

Telegraph Cable Engineer 1880-1887

Asst (Benir) & M. Tho. H. Edison 1887-1894

Consulting Electrician to Edison Gen. Elec. E. + Gen. Elec. 6: 1892-94.

Consulting Electrician to Edison Gen. Elec. E. + Gen. Elec. 6: 1892-94.

Consulting Elec. Engineer (Frim of Horiston Hennelly, Phila. Pa) 1894-1902.

Lef Engr. in charge of laying Vera-Bruz-Frontera-Bampeche Cables for Mex Gort 1902.

Director of Elec. Engg. at Haward since 1902 and at M. J. T. since 1914.

Director of Elec. Research Div. Enge. Engg Dept. MIT since 1915.

B28 A7 Prof & E. [Harned 4 2. J. J.)

B23 A7 Head Research Deft. (D. J. J.)

B2 A7 lemently tengr. (ledien Gen. Elec. Lev.)

E1, E3, E5, Fa, R4, 81

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.

	at et a contra monta a contra del	ir entires in the following schedule are for indexing purpo	1505.
C	AGRICULTURAL MACHINERY AND IMPLEMENTS	G FUELS AND COMBUSTION (See also Q, Oil and Gas Supply) I MACHINERY AND TOOLS (Continued)	K INDUSTRIAL MACHINERY 1 Cement
	(Including Farm Tractors and the	1 Coal 6 Forge Shop Equipment	2 Dairying
	Application of Electricity)	2 Coke (See also N)	3 Flour-milling
	A STATE OF THE STA	3 Low-grade Fuels a Steam and Air Hammers	4 Mining and Ore-dressing
		4 Blast-furnace and Coke-oven b Bulldozers	5 Paper and Pulp
	1 Transit bear more managed to	Gas	6 Logging
		5 Producer Gas	7 Saw-mil!
		6 Roiler Ruppace's	8 Shoe
	2	a Stokers 7 Welding Equipment	9 Sugar
		a Electric	10 Textile
		b Oxy-acetylene	11 Wood-working
D	AVIATION		
	1 Aeroplanes	7 Industrial Furnaces	12
	2 Hydro-aeroplanes	8 Oil-burning Equipment	A STATE OF THE STA
	3 Balloons and Dirigibles	9 Powdered-fuel Equipment J ENGINEERING MACHINERY	13
	(Including Production of	1 Air Machinery	
	Hydrogen)	10 a Compressors	14 Specialty Machines
	4 Engines	b Pneumatic Tools	a Adding
	5 Fuselages and Planes	c Fans and Blowers	b Envelope
	6 Parts and Instruments	H HEATING AND VENTILATING d Turbo-blowers	c Sewing
		1 Hot-air	d Typewriters
A FULL	7	2 Steam and Hot-water	e Weighing
	ampaints in the	2 17	Refrancia Chenalism Co
		4 Martin Control	Annual Designation of the Control of
		5 Air-conditioning b Direct-acting	
E	COMMUNICATION	0 Direct-acting	L MATERIALS
-	1 Cables	d Pumping Engines	
	2 Signal Systems	7	1 Iron and Steel
-	3 Telegraph	and the second of the second o	a Cast Iron
	4 Telephone		b Malleable Iron
-	5 Radio	Ha LIGHTING 3 Refrigerating	c Wrought Iron
	6 Light Rays	(Electricity, Gas, Oil) a Ice Making	whell field A bear made a line-
		→ 1 Residence b Cold Storage	d usedany
11000	7 of selection to select the selection of the selection o	► 2 Industrial	
	And the second second	→ 3 Street	e Alloys
		4 Head-lighting	f Cast Steel
	ELECTRICAL APPARATUS	5 Flood-lighting 4 Hoisting and Conveying	g High-speed Steel
		6 Picture Projection a Conveyors	h Steel Castings
See	also I-7, M-5, N-4, R-4, S-1,	7 Shades, Reflectors, Fixtures b Cableways	j Structural Steel
	<i>U</i> & <i>Z</i>	8 Lamps (See 15, Z7) c Cranes and Hoists	k Manfactured Product
1	I Generators	d Elevators and Escalators	(See L -5)
2	and converses	I MACHINERY AND TOOLS e Pneumatic Tube Systems	l Cold-drawn Steel
:			
	Lamps (see Ha)	1 Machine Parts	m
	5 Batteries	a Ball and Roller Bearings b Gears	
6		5 Mining	2 Non-ferrous Metals
7		a Boring	a Alloys
8		b Draining	b Aluminum and Magnes-
10		2 Machine Tools c Dredging	ium
10	, recenters	(Specify what tools) d Excavating	c Antimony, Bismuth, and
		e Hydraulic	Cadmium
11		a f Quarrying	d Brass and Bronze
		g Tunnelling	e Chromium and Man-
F7 -	TITOTOTO MELINGINA	b	ganese
ra	ELECTRICAL TRANSMIS-	h	f Copper
	SION AND DISTRIBUTION		g Gold and Silver
- 1	Transmission Systems	6 Chemical Plant Equipment	h Iron and Steel i Lead
	a Overhead	d Grinding Machines a Evaporators	
	b Underground	e Polishing Machinery b Drying Apparatus	j Mercury k Nickel and Cobalt
L 2	Distributing Systems	3 Small Tools	l Platinum Metals
	a Overhead	4 Gages, Jigs and Fixtures	m Radium and Uranium
	b Underground	5 Metal-working Machinery	n Silicon and Titanium
3		a Bending and Straighten- ing Machines 7 Fire Extinguishing Machines	o Sodium
- 4		b Shearing Machines a Sprinklers	p Tin
- 5	Wires and Cables	c Power Presses b Engines	q Tungsten
		d Wire-drawing Machines c Chemical	r Zinc
6			
		e	s

INDEXING SCHEDULE

(Continued)

	(Continued)								
LN	IATERIALS (Continued)	N METALLURGICAL EQUIP-	R POWER GENERATION	U TRANSPORTATION					
3	Non-Metals	MENT (Continued)	(Continued)	1 Animal					
	a Abrasives	2 Iron and Steel Works Equip-	f Turbines	2 Automobiles					
	b Asbestos	ment	g Condensers	(Specify whether gasoline, electric					
	c Belting Materials	a Blowing Engines	h Piping, Valves and Fit-	or steam)					
	d Insulating Materials	b Coke oven (including by-	tings	a Pleasure Cars					
	e Lubricating Oils	product) Equipment	j Steam Specialties	b Road Tractors					
	f Carbon Products	c Rolling Mill Equipment		c Trucks d Motor Cycles					
	g Concrete, Reinforced	anomarous d	k	30 (50 pm) (10 pm pm) (12 pm) (2 pm)					
	Concrete	a marking a	2 Gas Power and Plant Equip-	e Motors f Accessories and Parts					
	h Timber	3 Forging Equipment	ment a Gas Producers	j liccessories and Larts					
	Annual Company Company	a Forging Presses	a Gas Producers b Blast Furnace and Coke-	8					
	i emili e		oven Gas Equipment	3 Railway, Electric					
4	Chemicals	b	c Gas Engines	a Maintenance of Way					
	a Acids, Alkalies and Salts		d Oil Engines	b Valuation					
	b Alcohol and Acetone	4 Electric Furnace	e Gasoline Engines	c Trolley Cars					
	c Ammonia		f High-speed Gasoline En-	d Gasoline-electric Cars					
	d Analytical Chemistry	O MUNICIPAL AND COM-	gines	e Car Barns and Sheds					
	e Barium Compounds	MUNITY		f Electrolysis Prevention					
	f Cement, Lime (see L-3)	1 Pavements and Roads	g	g					
	g Coke and Tar	2 Sewerage and Water Supply							
	h Dyes and Textiles	3 Irrigation	3 Hydraulic Power and Plant	4 Railroad, (Steam or Electric)					
	i Explosives (high)	A POWER AND ASSOCIATION OF THE PARTY OF THE	Equipment	(Specify whether steam or electric)					
	j Explosives(black powder)		a Turbines	a Maintenance of Way					
	k Fats and Soaps	P MUNITIONS	b	b Cars					
	l Fertilizers m Foods	1 Artillery	0	c Locomotives					
		2 Machine Guns	- 4 Electric Light and Power	d Brakes					
	n Glass and Ceramics o Inorganic Chemicals	3 Rifles	a Central Stations	e Locomotive Terminals					
	p Nitrogen (synthetic)	4 Side Arms	b Isolated Plants	and Equipment					
	q Organic Chemicals (other	5 Explosives		f Signals					
	than b)	6 Shells	c	we t faire with the second to the					
	r Paints and Varnish	7 Fuses		8					
	s Petroleum and Asphalt	8 Cartridges	d Substations	5 Railway, Industrial					
	t Pharmaceuticals	9 Aircraft Bombs	The second secon	6 Marine					
	u Pyrotechnics	10 Torpedoes 11 Mines	J POWER TRANSMISSION	a Boilers					
	Rubber and Allied Sub-	12 Grenades	_ 1 Electric	b Oil-burning Equipment					
	stances	12 Grenades	a Motor Drive	c Steam Engines					
	w Sugar, Starch, and Gums	13	b Motor Control	d Oil and Gasoline Engines					
	x Toluol, Benzol y Wood Products		c and the same of	e Turbines					
5	Supplies			f Electric Drive					
	a Bolts and Nuts	Q GAS MANUFACTURE AND	2 Belt Transmission	g Propellers h Steering Gear					
	b Brass Products	SUPPLY	a Shafting	" Steering Gear					
	c Pipe and Fittings	1 Coal Gas Plant	b Pulleys	j					
	d Tubes	2 Water Gas Plant		A CONTRACT OF THE PARTY OF THE					
	e Wire	3 Pintsch Gas Plant	C	7 Canal					
		4 Distribution System 5 Lamps (see Ha)	3 Rope Transmission	a Electric					
	f	3 Lamps (see 22 (4)	4 Chain Transmission	b					
		6	5 Gearing						
			a Reduction Gearing	W					
MI	MEASURING AND TESTING	Og OH AND WARNELL CAS							
T. Park	APPARATUS	Qa OIL AND NATURAL GAS SUPPLY	b	X					
1	Calipers and Gages	SUFFEE	7 SHIPS	V					
2	Pressure Gages	1		Y					
3	Flow Meters		1 Merchant Ships and Transports (Specify wood or steel)	Z MANUFACTURING AND					
4	Dynamometers	2 Natural Gas Wells Equipment	2 Warships	SPECIAL PROCESSES					
- 5	Electrical Instruments	3 Natural Gas Distribution	3 Patrol Boats	1 Machine Shop Processes					
6		4 Oil Well Equipment	- 4 Small Boats, Yachts	2 Cement Manufacture					
7	Recording Instruments	5 Oil Distribution	5 Submarines	3 Paper Manufacture					
8	Testing Machines	6 Oil Refining	6 Trawlers and Mine Sweepers	4 Textile Manufacture					
9 10	Weighing Apparatus Photometers	7 Lamps (see Ha)		5 Electrochemical					
_ 10	Photometers	A STATE OF THE STA	7	6 Electrometallurgical					
		8		7 Special Processes					
11		D DOWNER CONTRACTOR	U STRUCTURES AND BUILDINGS	(Please add any processes					
		R POWER GENERATION	1 Foundations	with which you have had					
NN	METALLURGICAL EQUIP-	1 Steam Power and Plant Equip-	2 Factories	experience).					
	MENT	ment (For Furnaces see G)	3 Tanks 4 Power Houses	a Dynamic Balancing b Die Casting					
P. Ser	For Heat-treatment, etc., see Z	a Boilers	5 Docks, Dikes, Levees	b Die Casting c Heat Treatment					
	Foundry Equipment	b Superheaters	6 Bridges	d Metal Coating					
	(Specify what equipment)	c Economizers	7 Dams	e Wood Preservation					
W. 17 13		d Feedwater Heaters		f Lamp Manufacture					
	a	e Engines	8	g					