

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO.

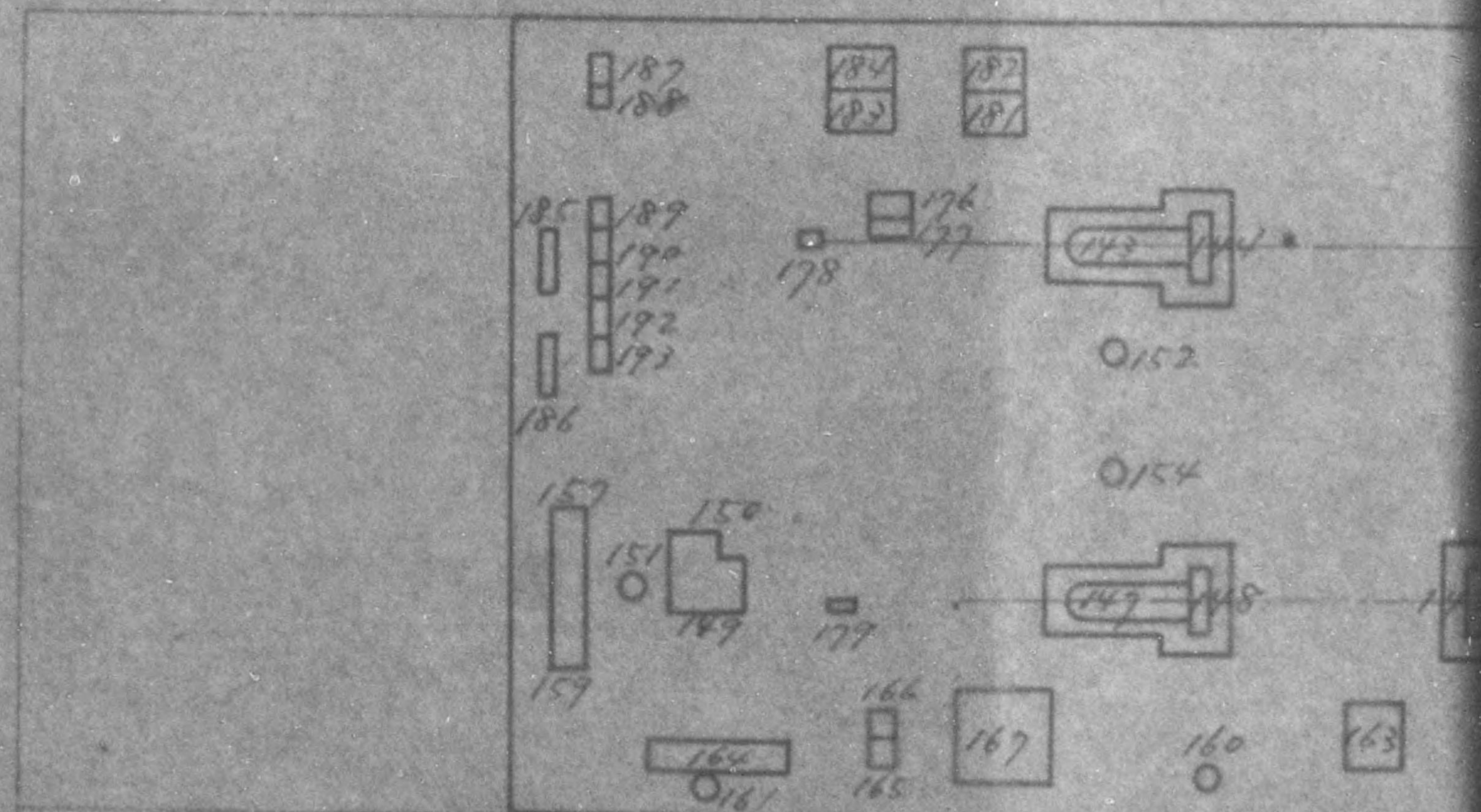
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348	"	1
349	"	1
350	C.P. Vessels	140
↓	"	140
489	"	140
490	Tank for drained water	1

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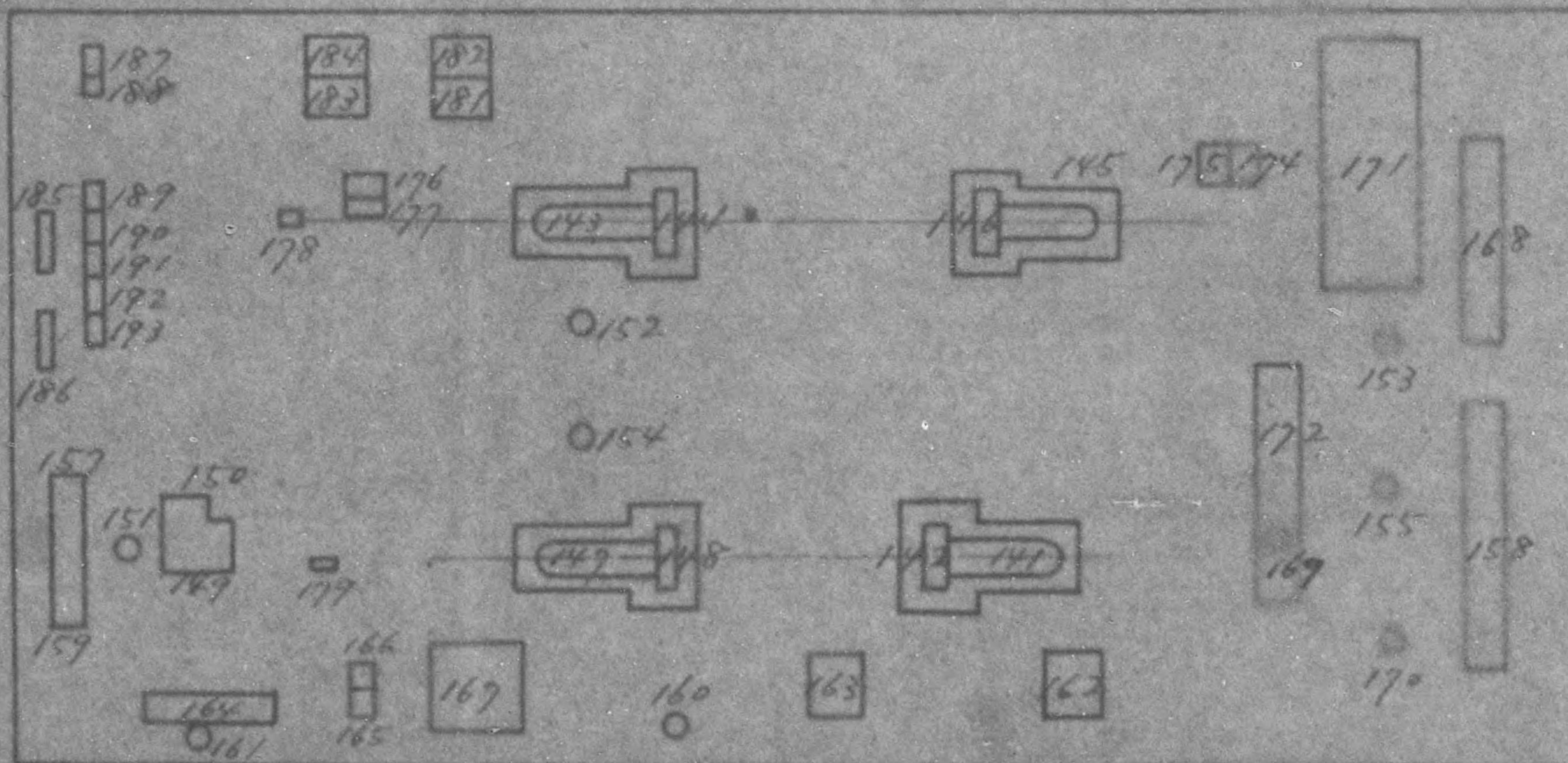
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Number

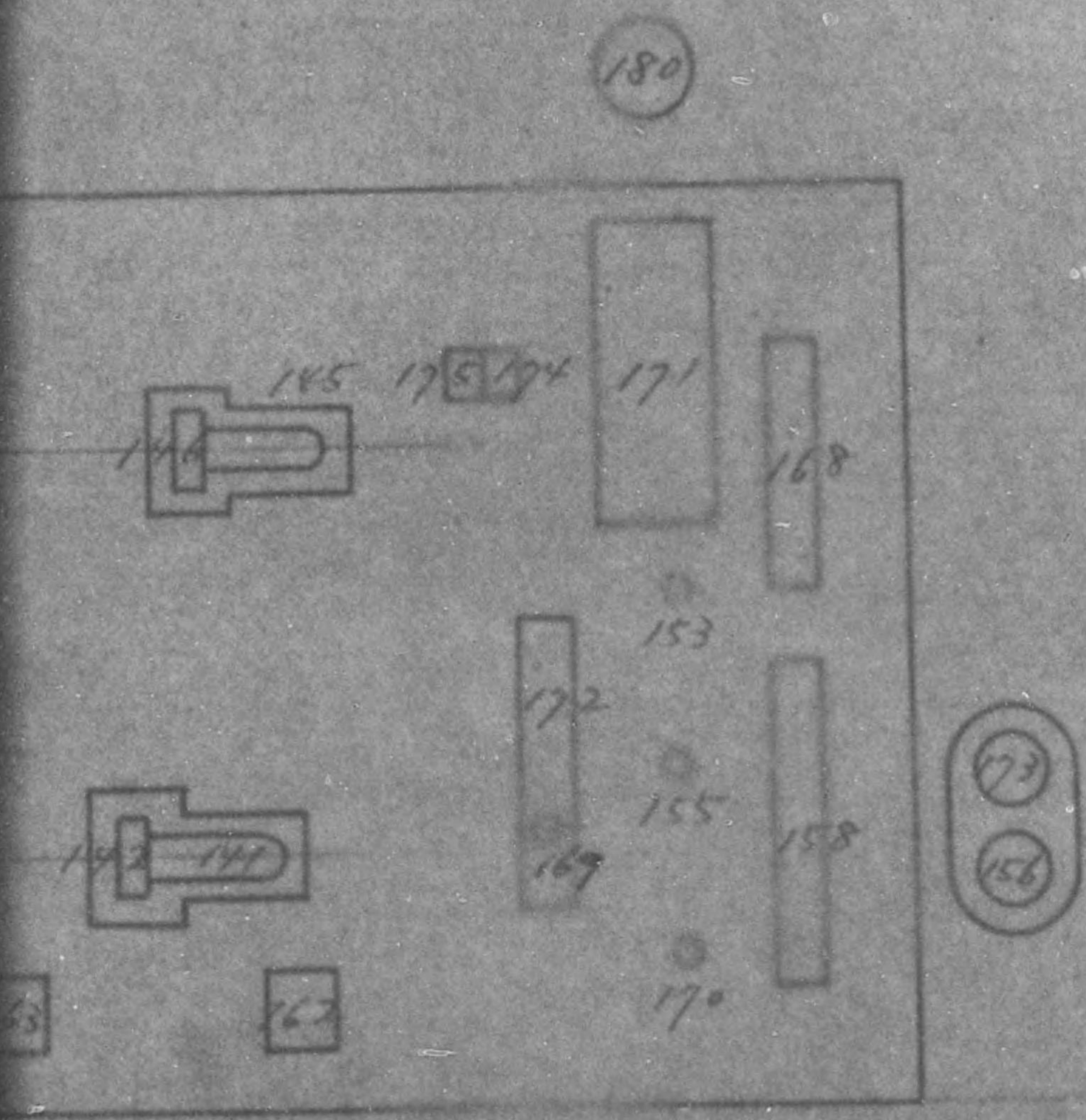
- 141 Ammon
- 142 Motor
- 143 Ammon
- 144 Motor
- 145 Ammon
- 146 Motor
- 147 Ammon
- 148 Motor
- 149 Ammon
- 150 Motor
- 151 Oil s
- 152
- 153
- 154
- 155
- 156 Ammon
- 157
- 158 Liqu
- 159
- 160 Accur
- 161
- 162 Inte
- 163 Ammo
- 164 Brin
- 165 Brin
- 166 Moto
- 167 Brin
- 168 Liqu
- 169 Liqu
- 170 Purg
- 171 Bri
- 172 Bri
- 173 Amm
- 174 Pum
- 175 Mot
- 176 Cen
- 177 Mot
- 178 Tro
- 179
- 180 Bri
- 181 Exi
- 182 Mo
- 183 Exi
- 184 Mo
- 185 Tr
- 186
- 187 Sw
- 188
- 189 Sw



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No.5 Machine list of Refrigerating plant

Number	Name	Amount	Number	Name
141	Ammonia compressor	1	190	Switch box
142	Motor 250 H.P	1	191	"
143	Ammonia booster	1	192	"
144	Motor 150 H.P	1	193	"
145	Ammonia booster	1		
146	Motor 150 H.P	1		
147	Ammonia booster	1		
148	Motor 150 H.P	1		
149	Ammonia compressor	1		
150	Motor 50 H.P	1		
151	Oil separator	1		
152	"	1		
153	"	1		
154	"	1		
155	"	1		
156	Ammonia condenser	1		
157	"	1		
158	Liquid ammonia receiver	1		
159	"	1		
160	Accumulator	1		
161	"	1		
162	Inter cooler	1		
163	Ammonia pre-cooler	1		
164	Brine cooler	1		
165	Brine pump	1		
166	Motor 7.5 H.P	1		
167	Brine tank	1		
168	Liquid ammonia receiver	1		
169	Liquid ammonia separator	1		
170	Purge drum	1		
171	Brine tank	1		
172	Brine cooler	1		
173	Ammonia condenser	1		
174	Pump	1		
175	Motor 20 H.P	1		
176	Centrifuger	1		
177	Motor 1/2 H.P	1		
178	Trolley block	1		
179	"	1		
180	Brine tank	1		
181	Exiter	1		
182	Motor 30 H.P	1		
183	Exiter	1		
184	Motor 30 H.P	1		
185	Transformer	1		
186	"	1		
187	Switch board	1		
188	"	1		
189	Switch box	1		



No.5 Machine list of Refrigerating plant

Number	Name	Amount	Number	Name	Amount
141	Ammonia compressor	1	190	Switch box	1
142	Motor 250 H.P	1	191	"	1
143	Ammonia booster	1	192	"	1
144	Motor 150 H.P	1	193	"	1
145	Ammonia booster	1			
146	Motor 150 H.P	1			
147	Ammonia booster	1			
148	Motor 150 H.P	1			
149	Ammonia compressor	1			
150	Motor 50 H.P	1			
151	Oil separator	1			
152	"	1			
153	"	1			
154	"	1			
155	"	1			
156	Ammonia condenser	1			
157	"	1			
158	Liquid ammonia receiver	1			
159	"	1			
160	Accumulator	1			
161	"	1			
162	Inter cooler	1			
163	Ammonia pre-cooler	1			
164	Brine cooler	1			
165	Brine pump	1			
166	Motor 7.5 H.P	1			
167	Brine tank	1			
168	Liquid ammonia receiver	1			
169	Liquid ammonia separator	1			
170	Purge drum	1			
171	Brine tank	1			
172	Brine cooler	1			
173	Ammonia condenser	1			
174	Pump	1			
175	Motor 20 H.P	1			
176	Centrifuger	1			
177	Motor 1/2 H.P	1			
178	Trolley black	1			
179	"	1			
180	Brine tank	1			
181	Exiter	1			
182	Motor 30 H.P	1			
183	Exiter	1			
184	Motor 30 H.P	1			
185	Transformer	1			
186	"	1			
187	Switch board	1			
188	"	1			
189	Switch box	1			

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164
165
167
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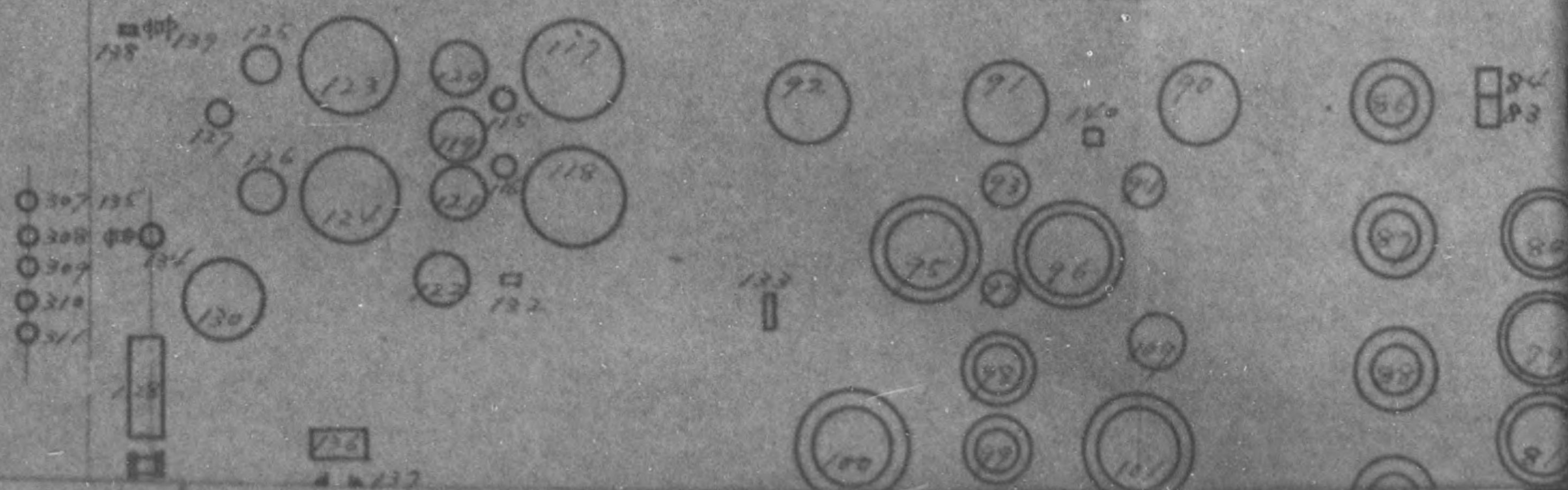
164
165
167
168
169
170

- 172 Brine cooler
- 173 Ammonia condenser
- 174 Pump
- 175 Motor 20 H.P
- 176 Centrifuger
- 177 Motor 1/2 H.P
- 178 Trolley black
- 179 "
- 180 Brine tank
- 181 Exiter
- 182 Motor 30 H.P
- 183 Exiter
- 184 Motor 30 H.P
- 185 Transformer
- 186 "
- 187 Switch board
- 188 "
- 189 Switch box

172	Brine cooler	1
173	Ammonia condenser	1
174	Pump	1
175	Motor 20 H.P	1
176	Centrifuger	1
177	Motor 1/2 H.P	1
178	Trolley black	1
179	"	1
180	Brine tank	1
181	Exiter	1
182	Motor 30 H.P	1
183	Exiter	1
184	Motor 30 H.P	1
185	Transformer	1
186	"	1
187	Switch board	1
188	"	1
189	Switch box	1

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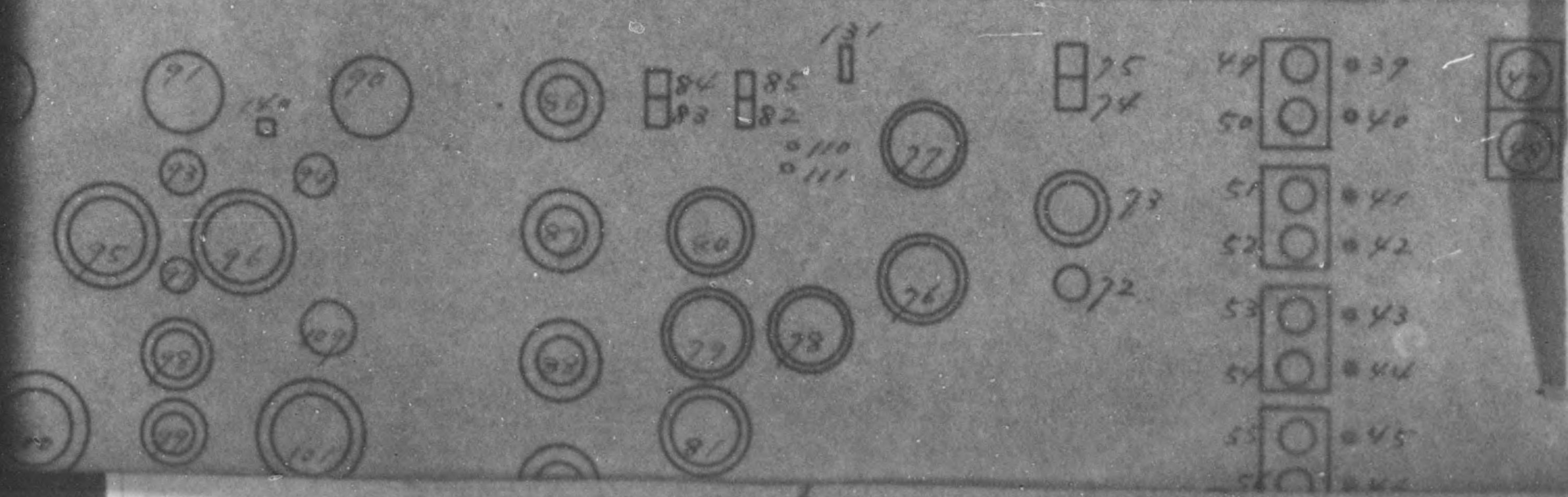
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No.4 M

Number	Name
29	Gas meter
31	Motor
33	Accumulator
35	Tank
37	Motor
39	Orifice flow meter
41	"
43	"
45	"
47	First catalyst hold with water jacket
49	Reaction vessel No with water-jacket
51	"
53	"
55	"
57	"
59	Pump
61	"
63	"
65	Motor
67	"
69	Spare reaction ves No.1
71	Motor 7.5 H.P
73	Tank
75	Motor
77	Water cooling cond No.2
79	Brine washing tower
81	Tank
83	Pump
85	Motor 3 H.P
87	Brine cooling cond No.4
89	Dryer for Acetylene solid calcium chlo
91	Ammonia cooling co No.5
93	Receiver for crude monovinyl Acetylene
95	Evaporator for M.V.
97	Rectifier for M.V.
99	M.V.A Condenser by brine cooling



No.4 Machine list of Synthesizing plant

Number	Name	Amount	Number	Name	Amount
29	Gas meter	1	30	Acetylene blower	1
31	Motor	1	32	Accumulator	1
33	Accumulator	1	34	Pre-heater for Acetylene	1
35	Tank	1	36	Pump	1
37	Motor	1	38	Flow meter	1
39	Orifice flow meter	1	40	Orifice flow meter	1
41	" "	1	42	" "	1
43	" "	1	44	" "	1
45	" "	1	46	" "	1
47	First catalyst holder with water jacket	1	48	First catalyst holder with water jacket	1
49	Reaction vessel No.1 with water-jacket	1	50	Reaction vessel No.1 with water-jacket	1
51	" "	1	52	" "	1
53	" "	1	54	" "	1
55	" "	1	56	" "	1
57	" "	1	58	" "	1
59	Pump	1	60	Pump	1
61	" "	1	62	" "	1
63	" "	1	64	Motor	1
65	Motor	1	66	" "	1
67	" "	1	68	" "	1
69	Spare reaction vessel No.1	1	70	Caunter shaft	1
71	Motor 7.5 H.P	1	72	Alkali washing tower	1
73	Tank	1	74	Pump	1
75	Motor	1	76	Water cooling condenser No.1	1
77	Water cooling condenser No.2	1	78	Heat exchanger No.3	1
79	Brine washing tower	1	80	Tank	1
81	Tank	1	82	Pump	1
83	Pump	1	84	Motor 3 H.P	1
85	Motor 3 H.P	1	86	Brine cooling condenser No.4	1
87	Brine cooling condenser No.4	1	88	Dryer for Acetylene by solid calcium chloride	1
89	Dryer for Acetylene by solid calcium chloride	1	90	Ammonia cooling condenser No.5	1
91	Ammonia cooling condenser No.5	1	92	" "	1
93	Receiver for crude monovinyl Acetylene	1	94	Receiver(Earthen ware pot)	1
95	Evaporator for M.V.A	1	96	Evaporator for M.V.A	1
97	Rectifyer for M.V.A	1	98	Dryer for pure M.V.A	1
99	M.V.A Condenser by brine cooling	1	100	Receiver for pure M.V.A	1

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20 vesselene ptemel
 28 gas meter
 amount name number name amount
 No. 4 apparatus list of experimental plant

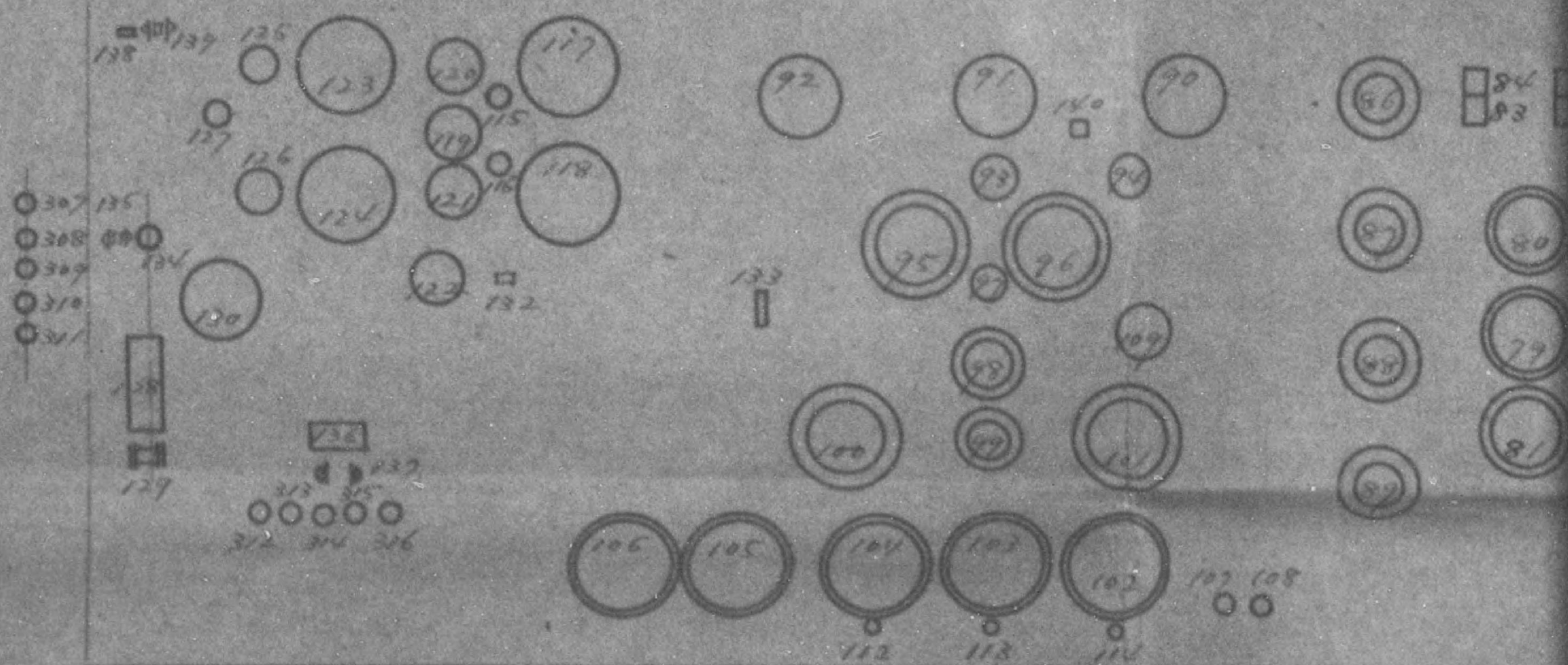
No. 4 - 2

Number	Name	Amount	Number	Name	Amount
101	Receiver for pure M.V.A	1	102	Reaction Vessel No.2	1
103	Reaction Vessel No.2	1	104	"	1
105	"	1	106	"	1
107	Counter shaft	1	108	Motor	1
109	Holder for carbon-dioxide gas	1	110	Safty by water seal	1
111	Safty by water seal	1	112	Agitator	1
113	Agitator	1	114	"	1
115	Evaporator for crude C.P	1	116	Evaporator for crude C.P	1
117	Rectifyer for C.P	1	118	Rectifyer for C.P	1
119	Dryer for C.P	1	120	C.P. Condenser by brine cooling	1
121	C.P. Condenser by brine cooling	1	122	"	1
123	Receiver for pure C.P	1	124	Receiver for pure C.P	1
125	Receiver for low boiling materiale	1	126	Receiver for low boiling materiale	1
127	Get condenser	1	128	Vacuum pump	1
129	Motor 10 H.P	1	130	Vacuum tank	1
131	Thermometer	1	132	Thermometer	1
133	"	1	134	Hoist	1
135	Motor 5 H.P	1	136	Vacuum pump	1
137	Motor 7.5 H.P	1	138	Test pump	1
139	Motor 1 H.P	1	140	Tank for balancing pressure	1

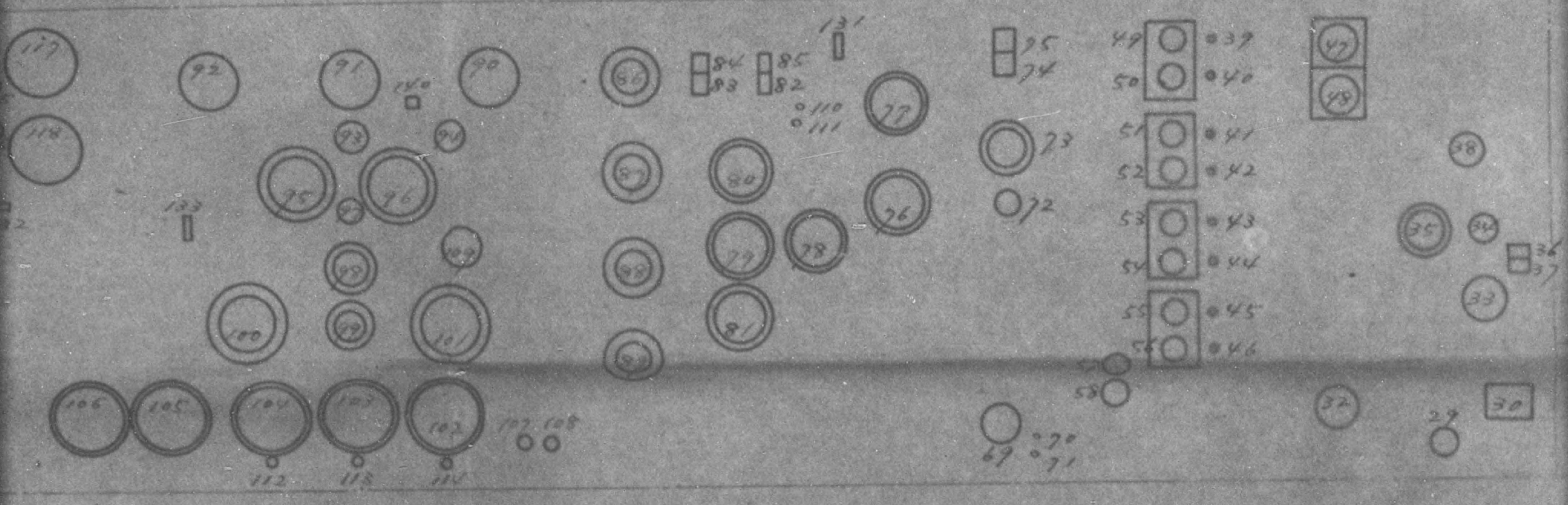
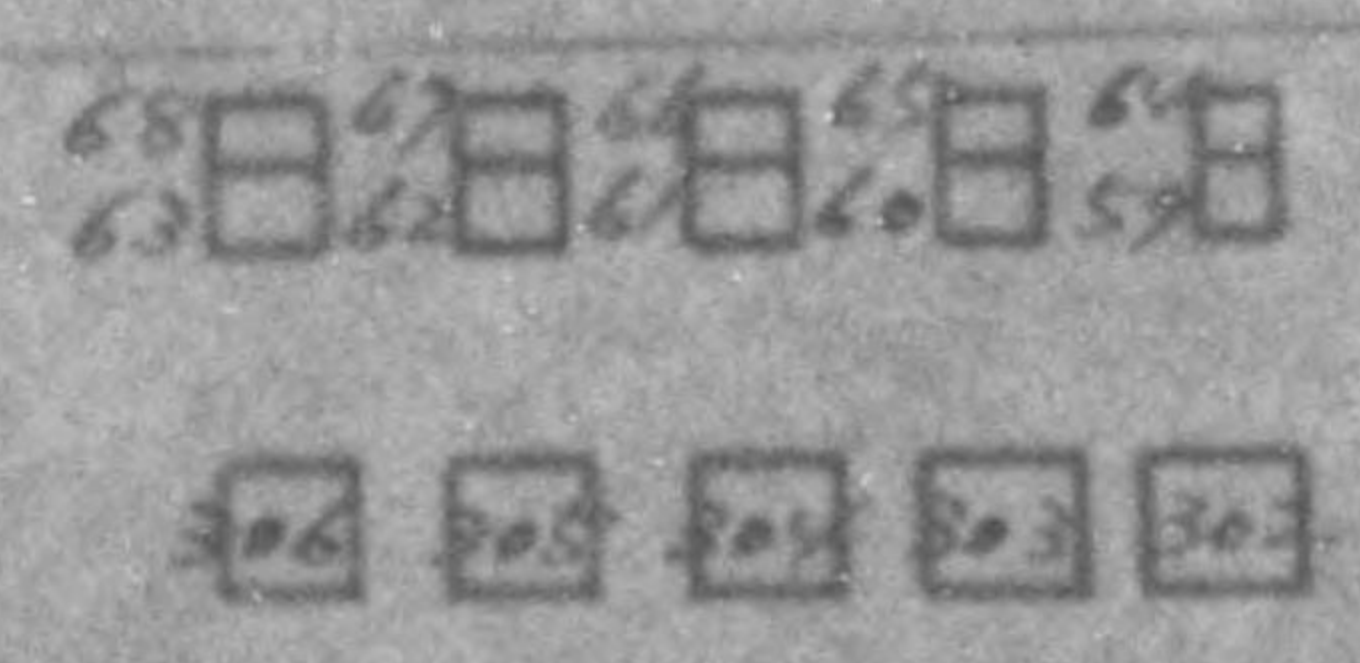
(No.4 Apparatus and Receptacle list)

302	Tank for hot-water	1	303	Tank for hot-water	1
304	"	1	305	"	1
306	"	1	307	Carrying pot for catalyst	1
308	Carrying pot for catalyst	1	309	"	1
310	"	1	311	"	1
312	"	1	313	"	1
314	"	1	315	"	1
316	"	1			

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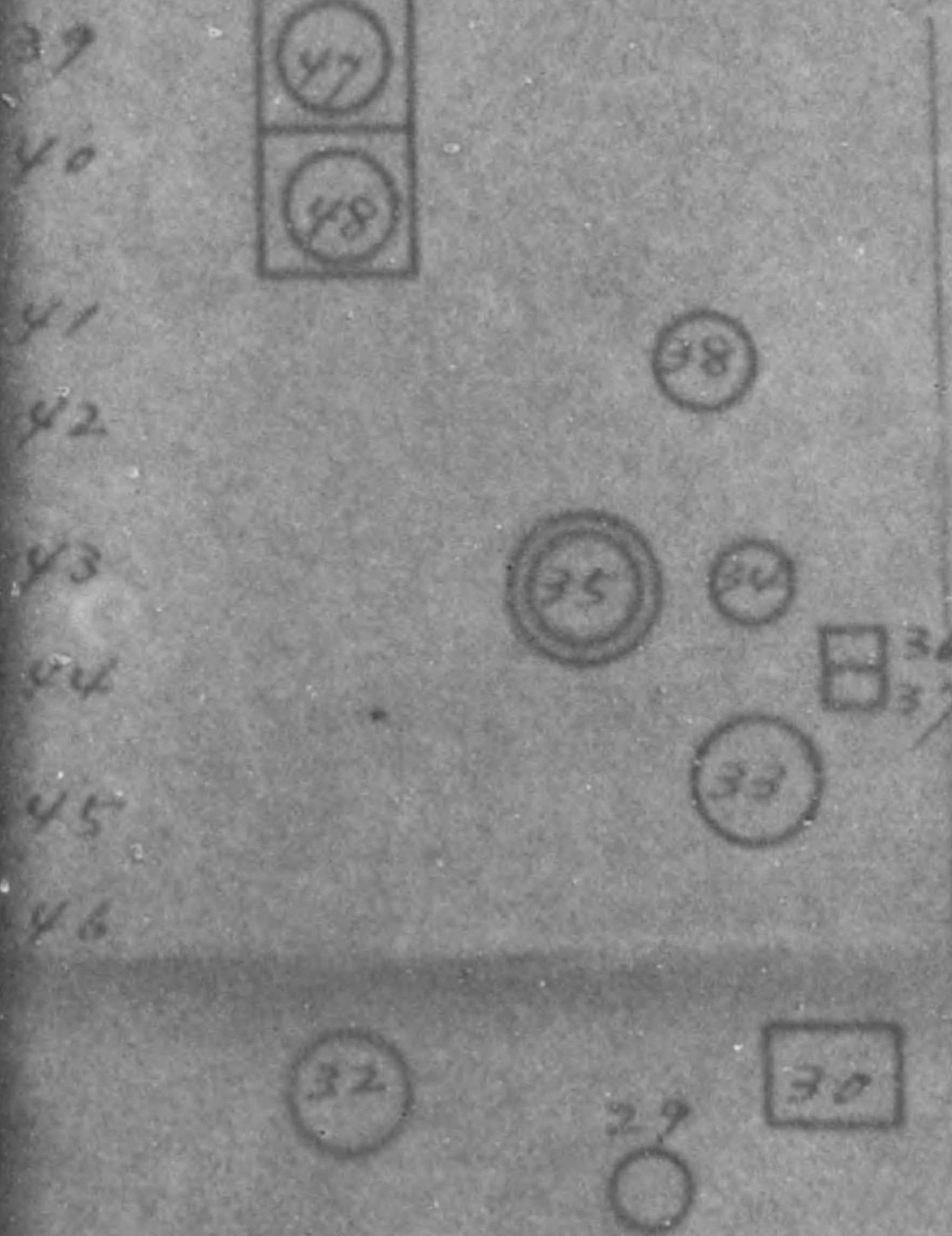
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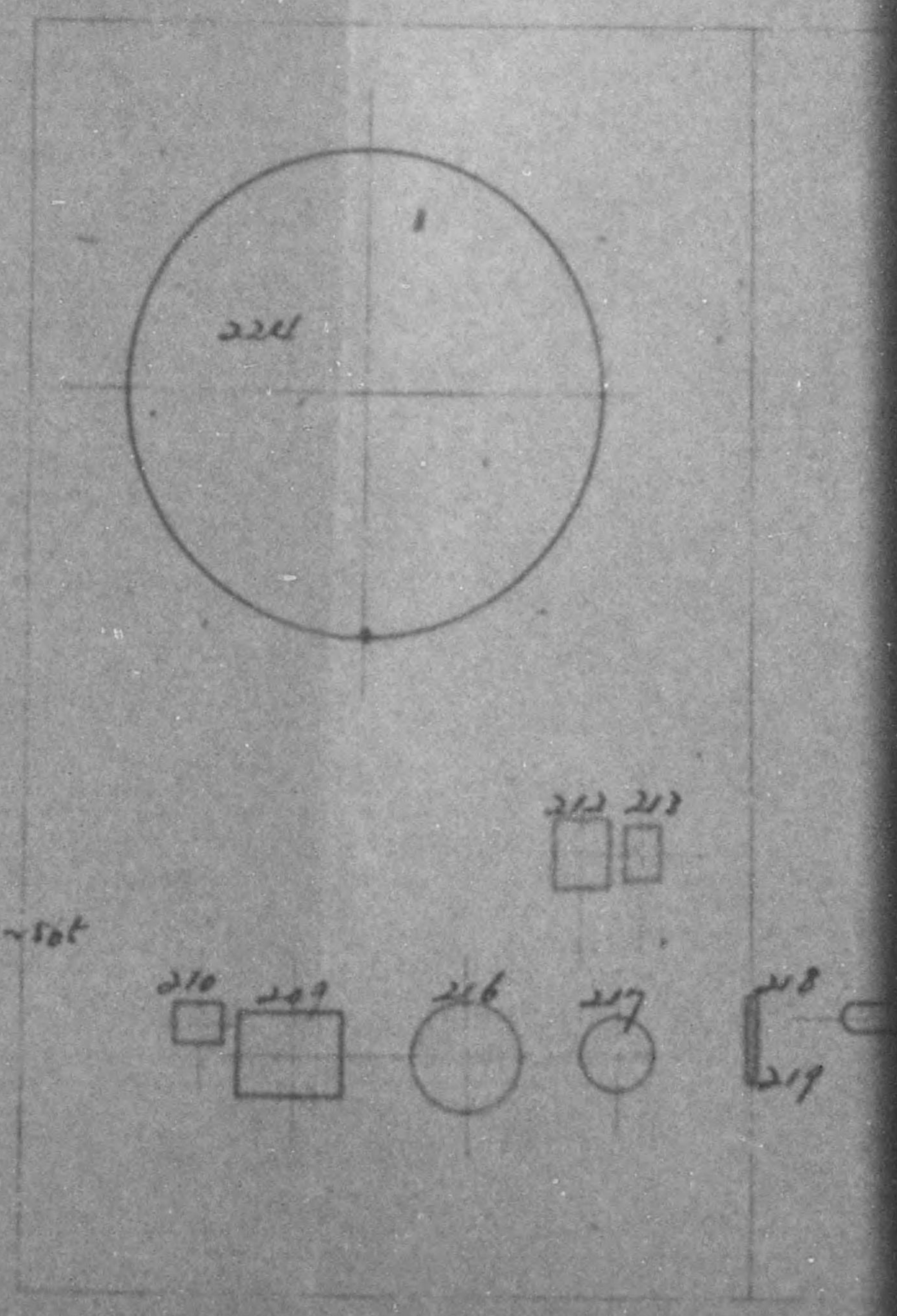
68 67 66 65 64
63 62 61 60 59

306 305 304 303 302



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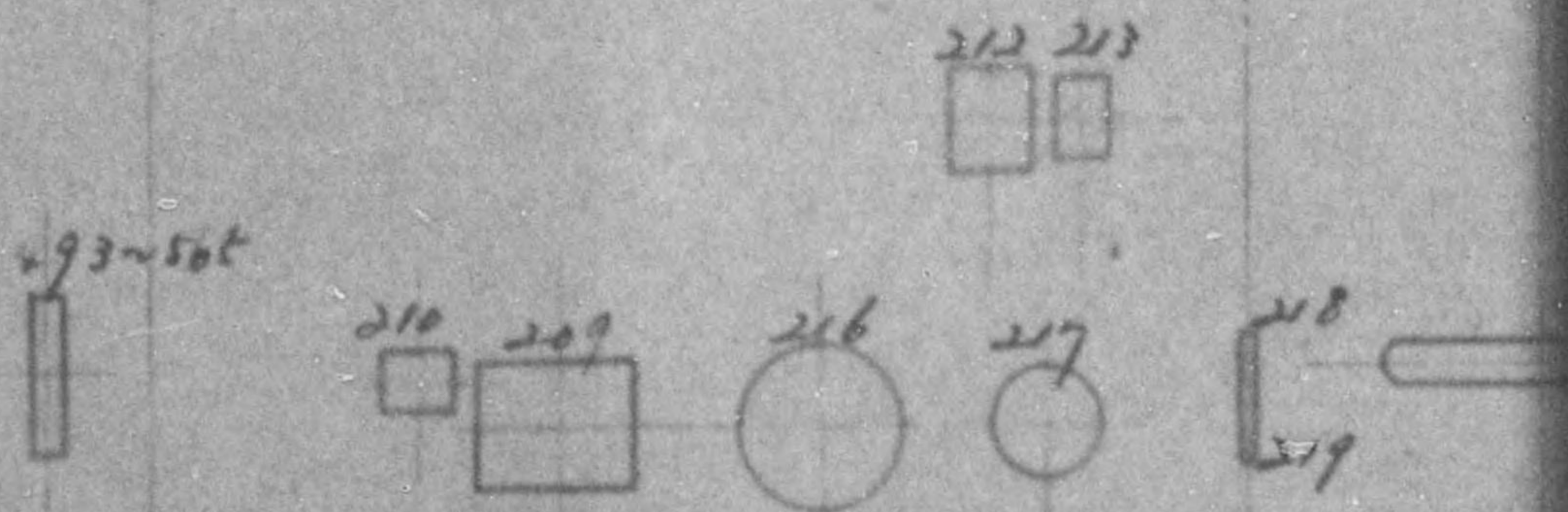
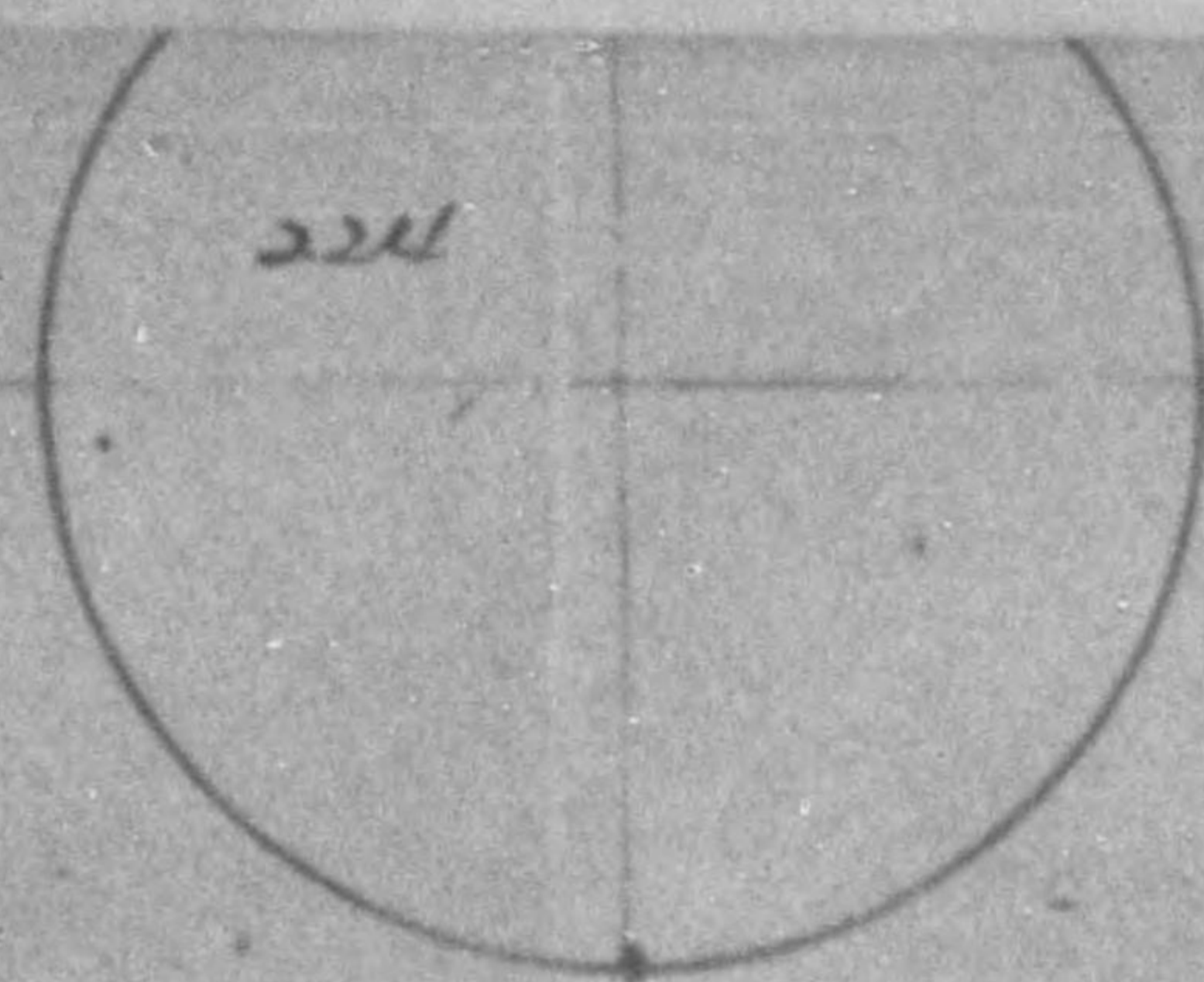
No.7 Machine list of Synthesizing plant of Hydrochloride Acid

Number	Name	Amount
209	Hydrogen gas blower	1
210	Motor 3 H.P	1
211	Silica tube	1
212	Blowermade by porcelain	1
213	Motor 1/2 H.P	1
214	Air compressor	1
215	Motor 1/2 H.P	1
216	Oil separator	1
217	Safety valve for Hydrogen	1
218	Flow meter	1
219	"	1
220	Nentrating tower for exhaust gas	1
221	Storge tank for catalyst	1
222	"	1
223	Head tank for catalyst	1
224	Holder for chlorin	1
225	Acid proof centrifugal pump	1
226	Acid proof motor 3 H.P	1
227	Silica tube	1 set

(No.7 Apparatus and Receptacle list)

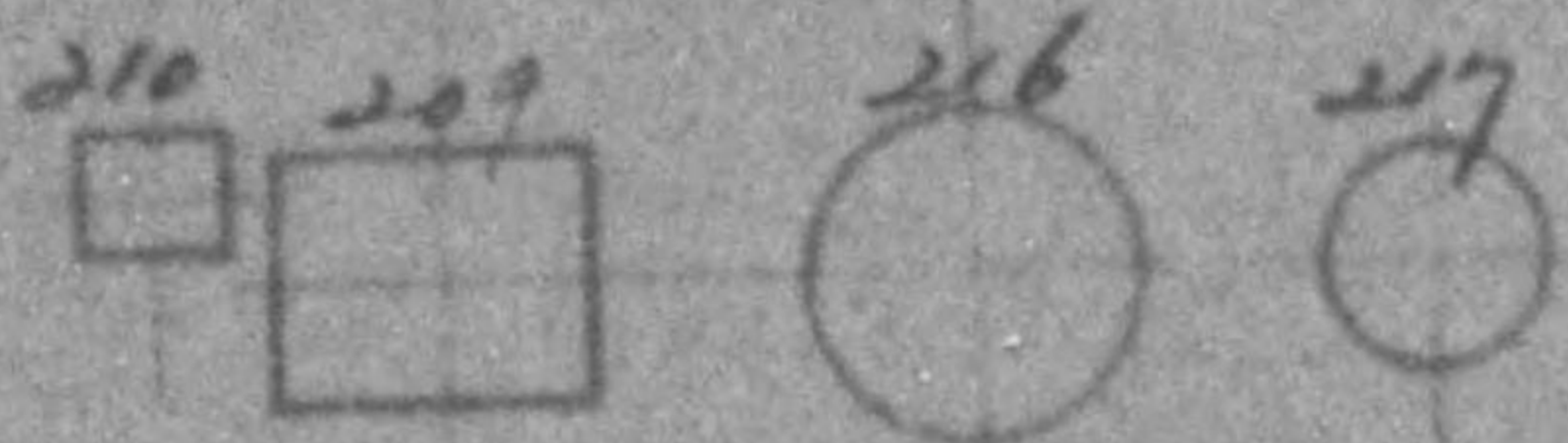
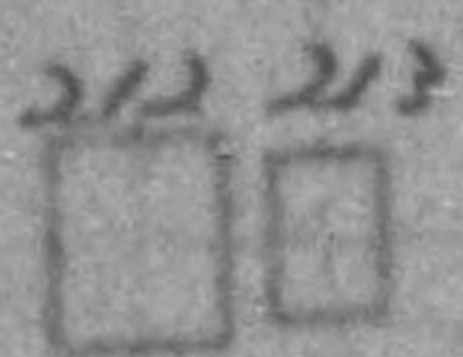
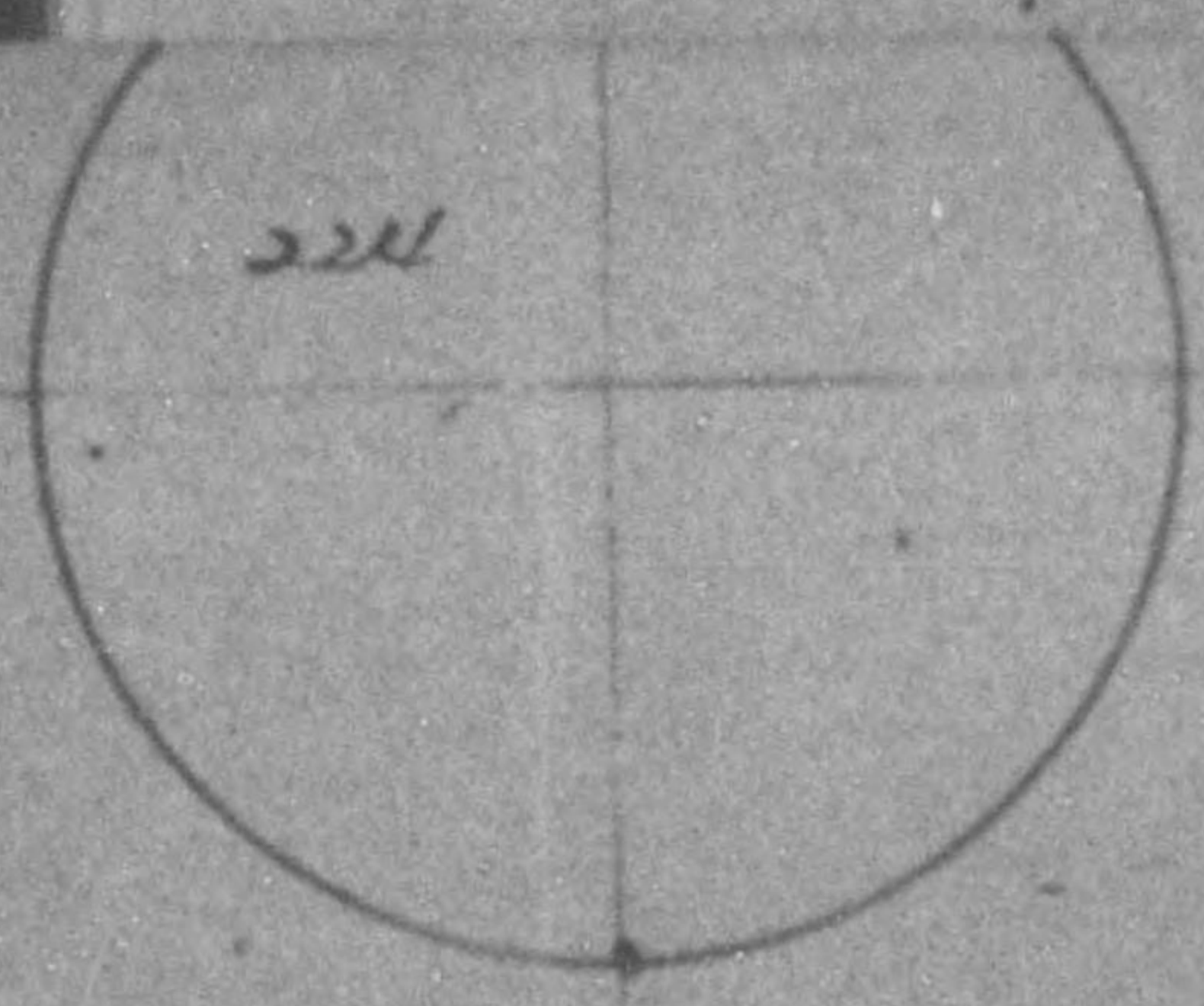
491	Receiver for Hydrochloride acid	1
492	"	1
493	Bombe for chlorin	78
565	"	73

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227 spare

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227 spare

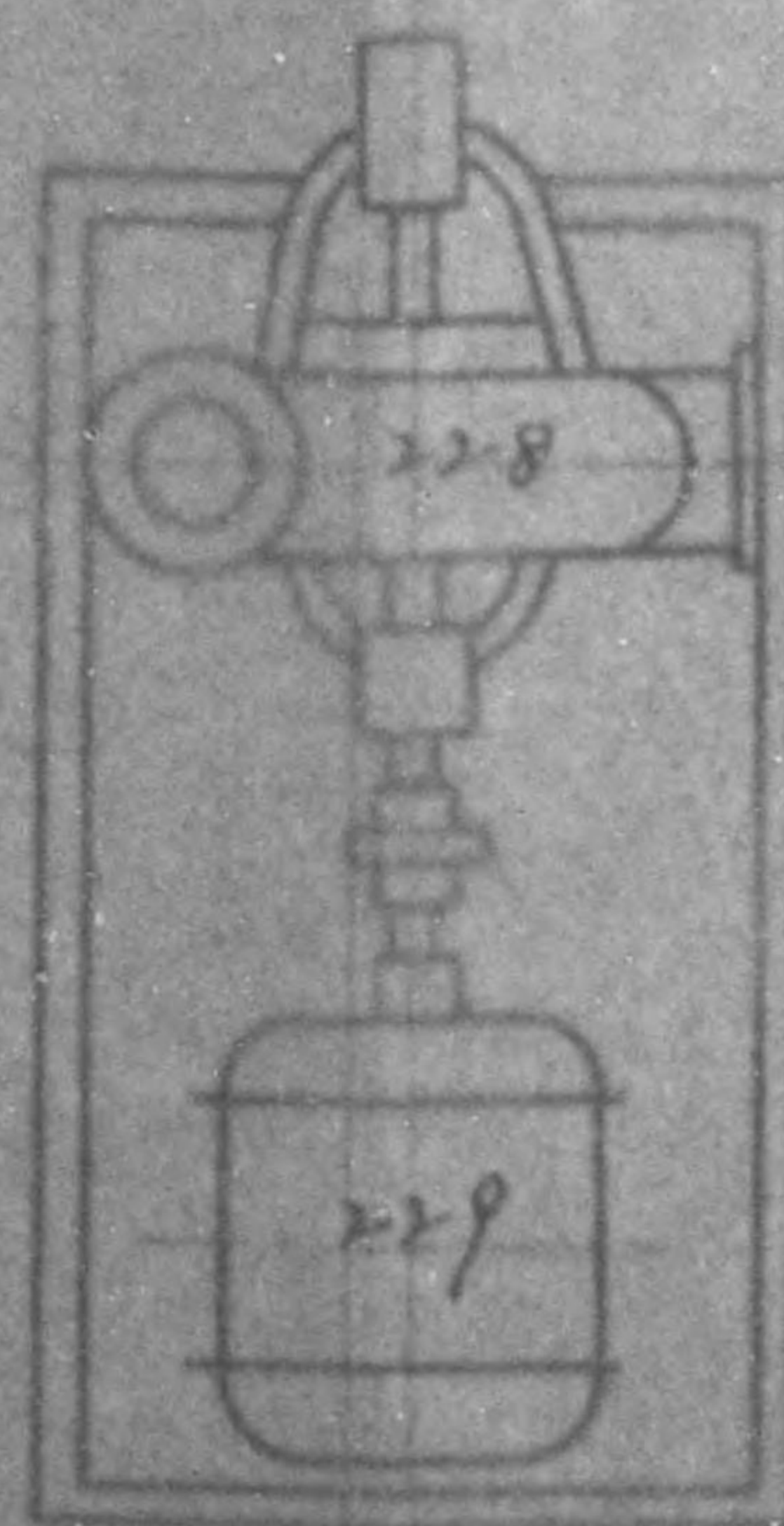
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492	"	1
493	Bombe for chlorin	76
	"	73
565	"	76



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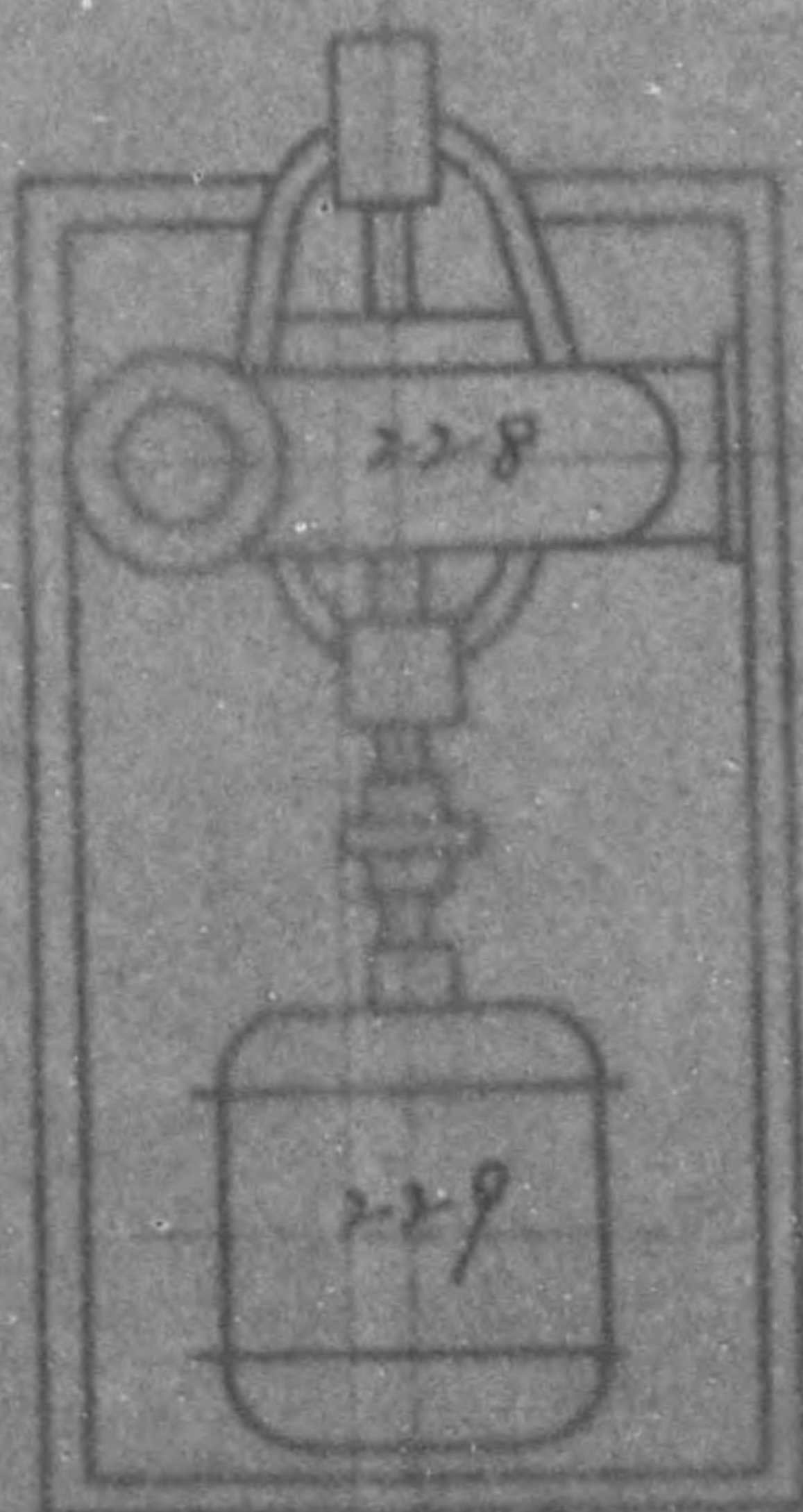
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No. 8 Machine 1
pump room

Number	Name
228	Pump
229	Motor



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No.8 Machine list of second
pump room

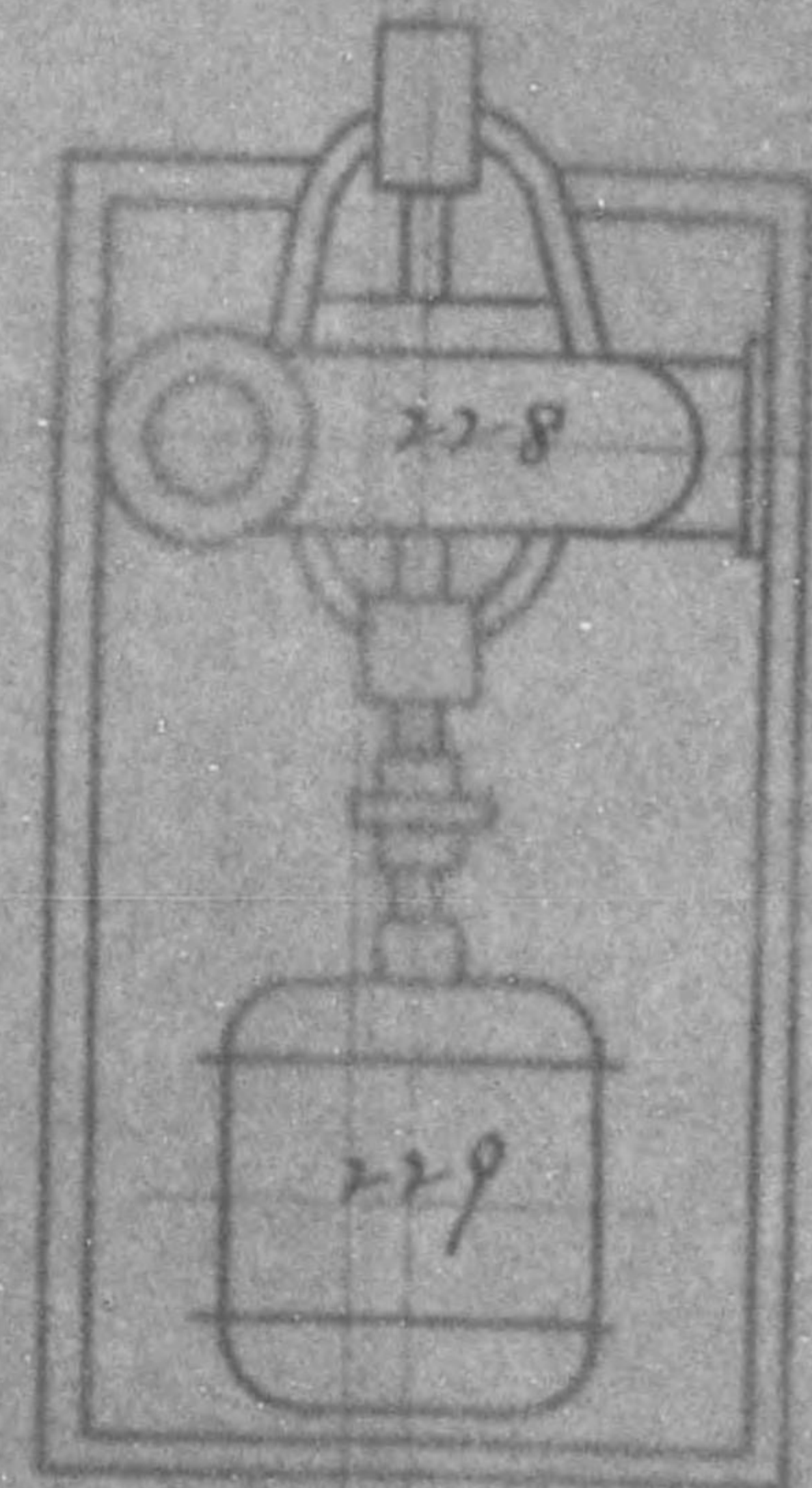
Number	Name	Amount
228	Pump	1
229	Motor 20 H.P	1

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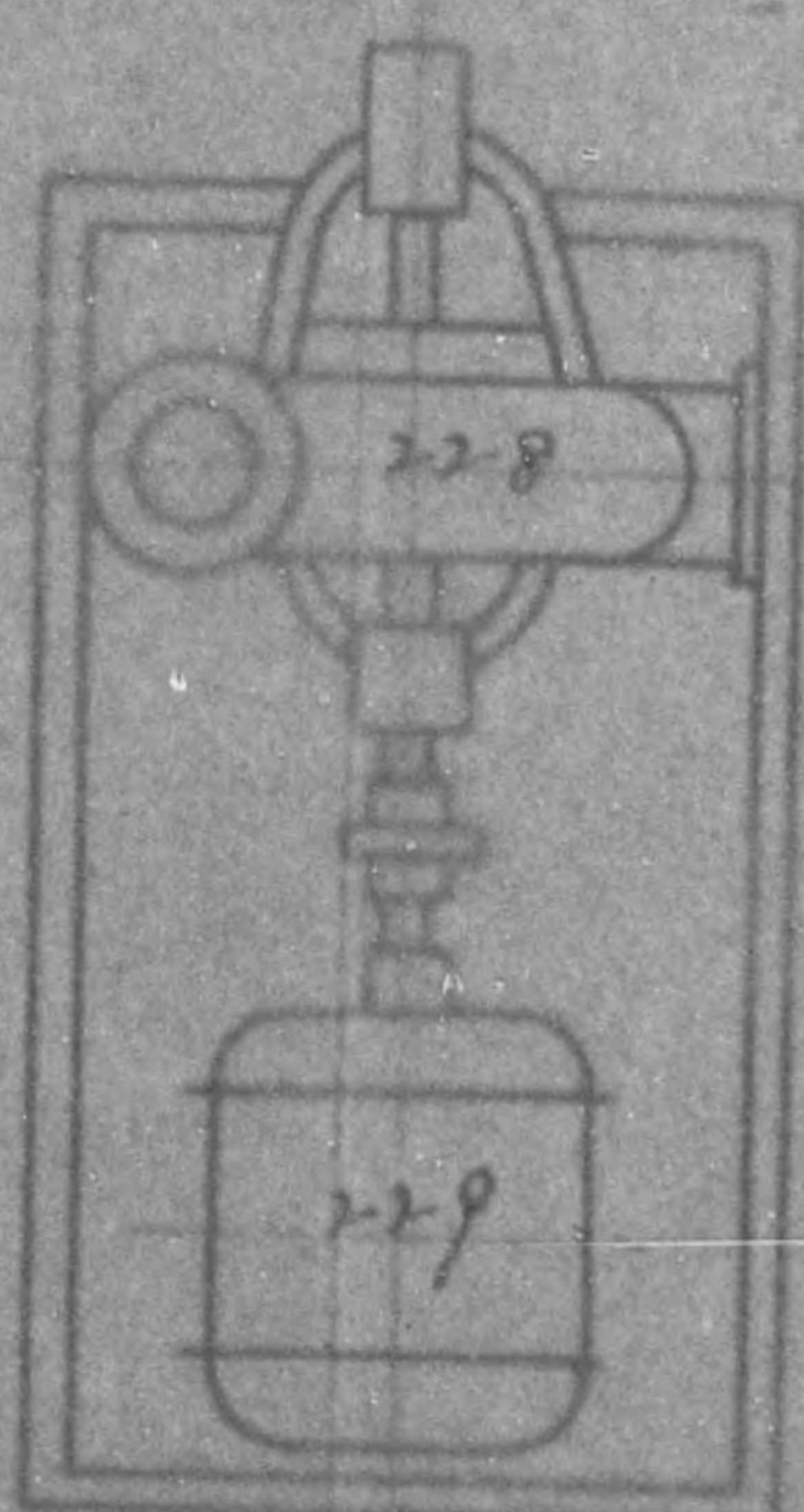
No.8 Machine list of second
pump room

Number	Name	Amount
228	Pump	1
229	Motor 20 H.P	1

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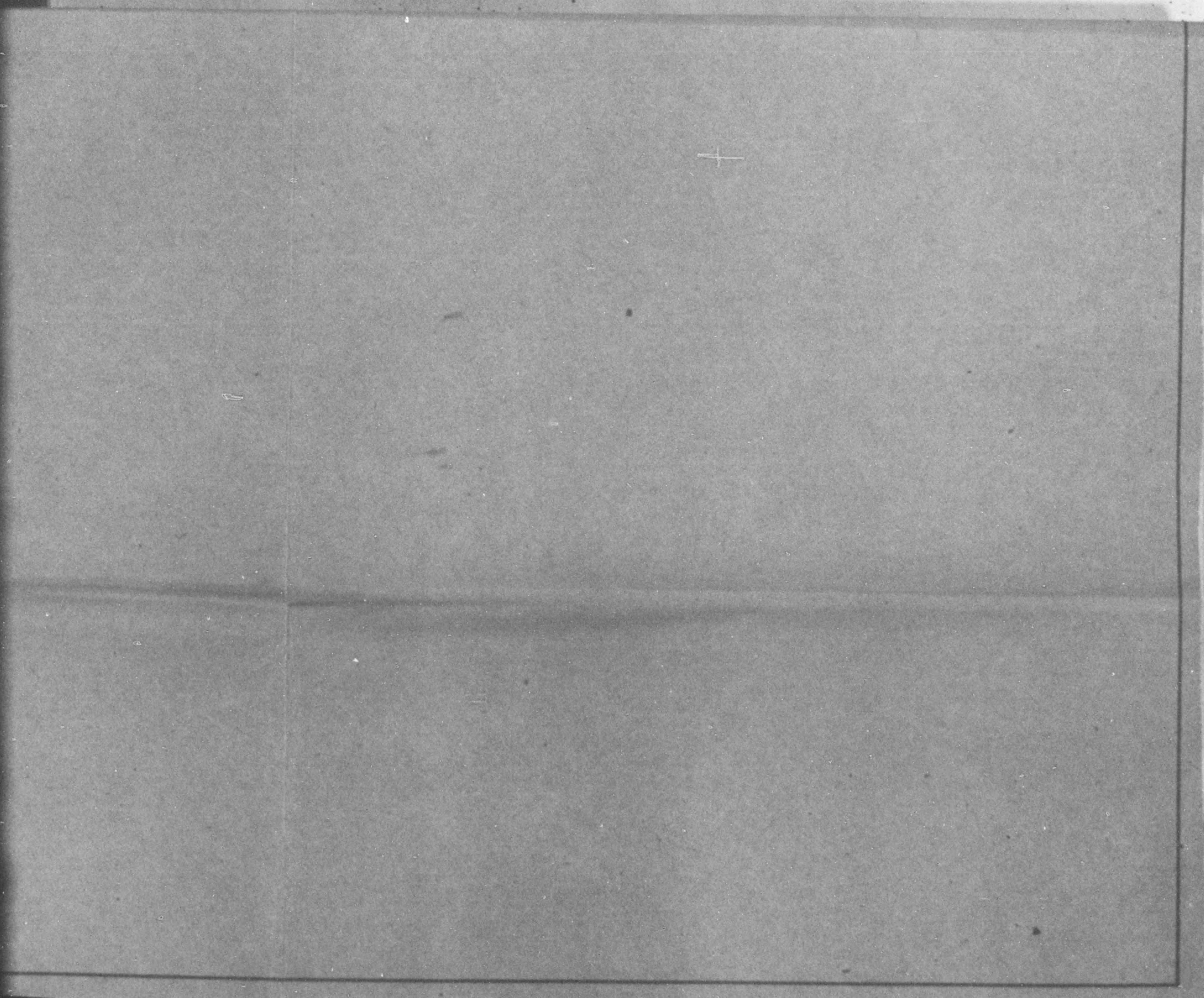
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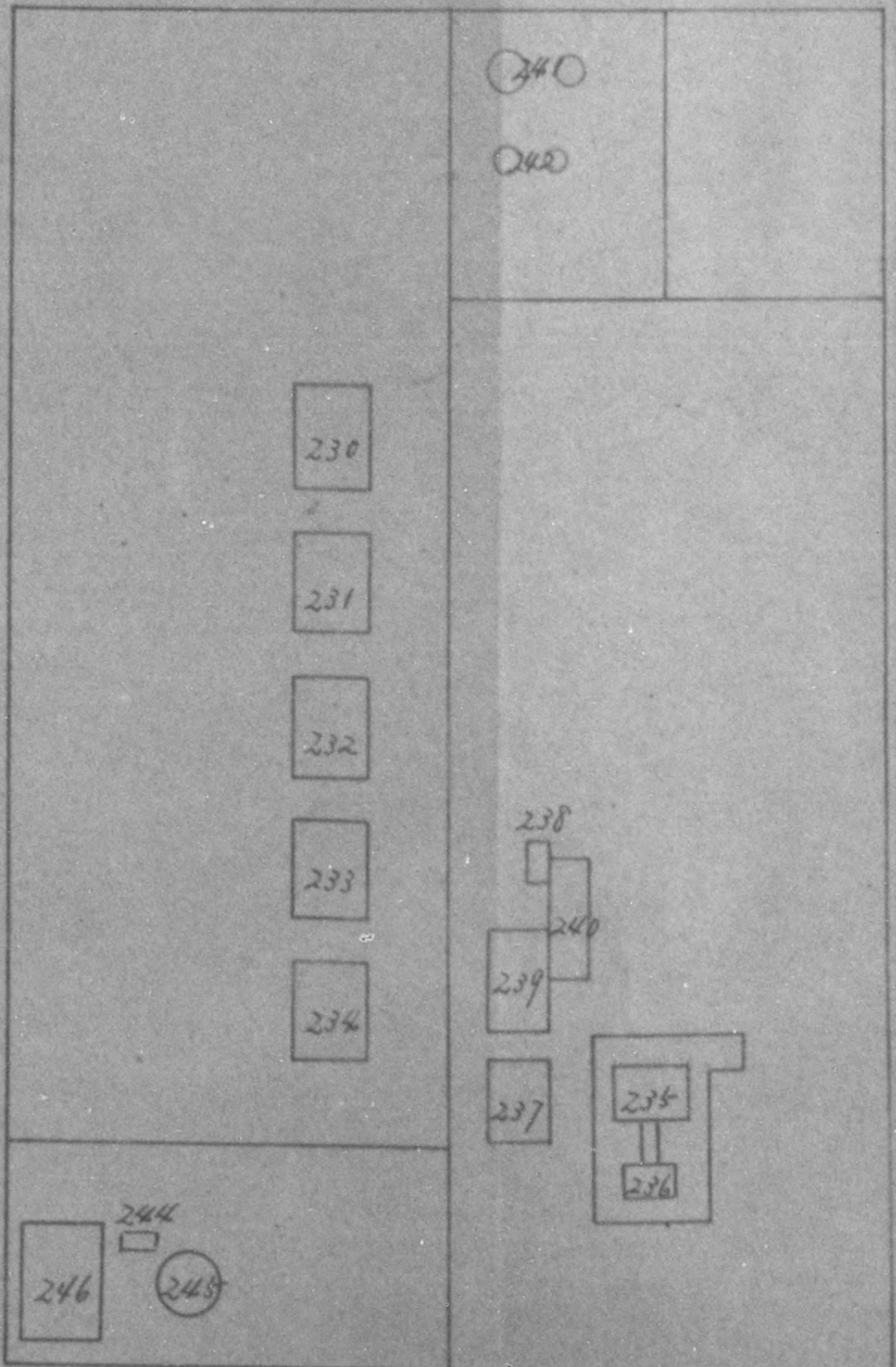
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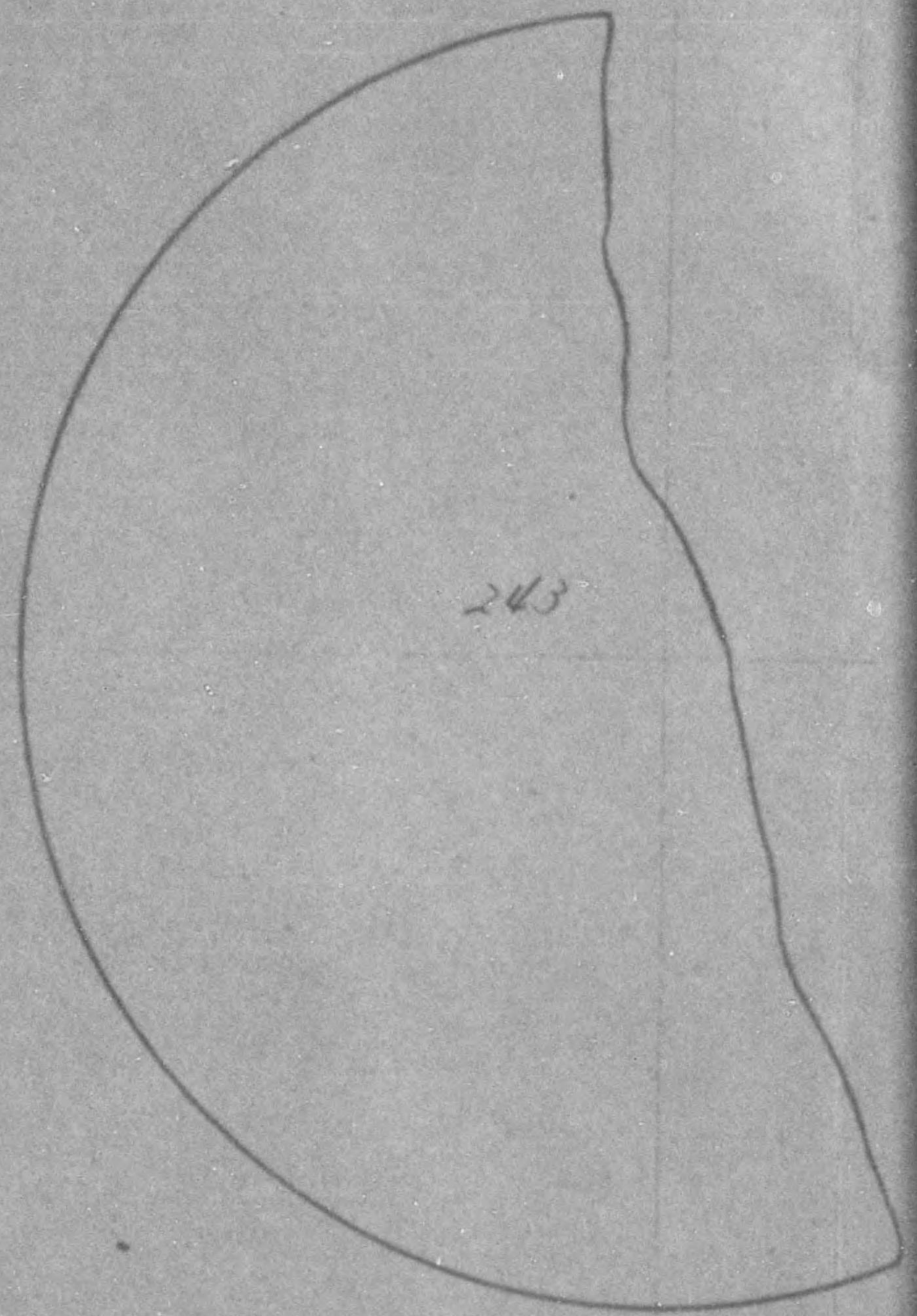
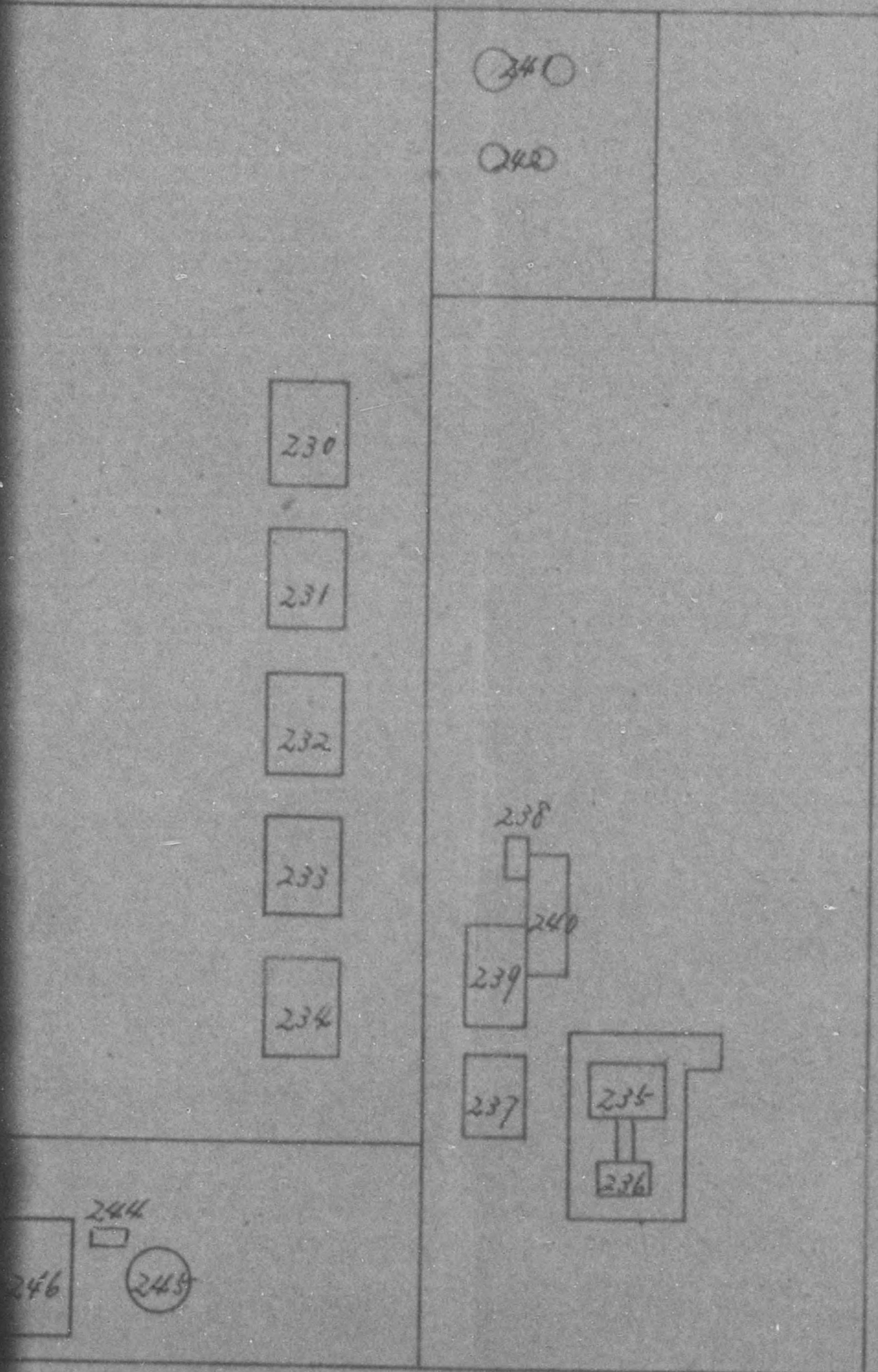


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No. 9 Machine list of
Electrolyzer of Water

Number	Name	Amount
230	Electrolysis Vessels	1
231	;	1
232	;	1
233	;	1
234	;	1
235	Converter	1
236	Motor 5 HP	1
237	Transformer	1
238	;	1
239	;	1
240	Switch board	1
241	Washer for Oxygen	1
242	Washer for Hydrogen	1
243	Hydrogen holder	1
244	Equipment to getting distilled water evaporator	1
245	Equipment to getting distilled water condenser	1
246	Tank for distilled water	1

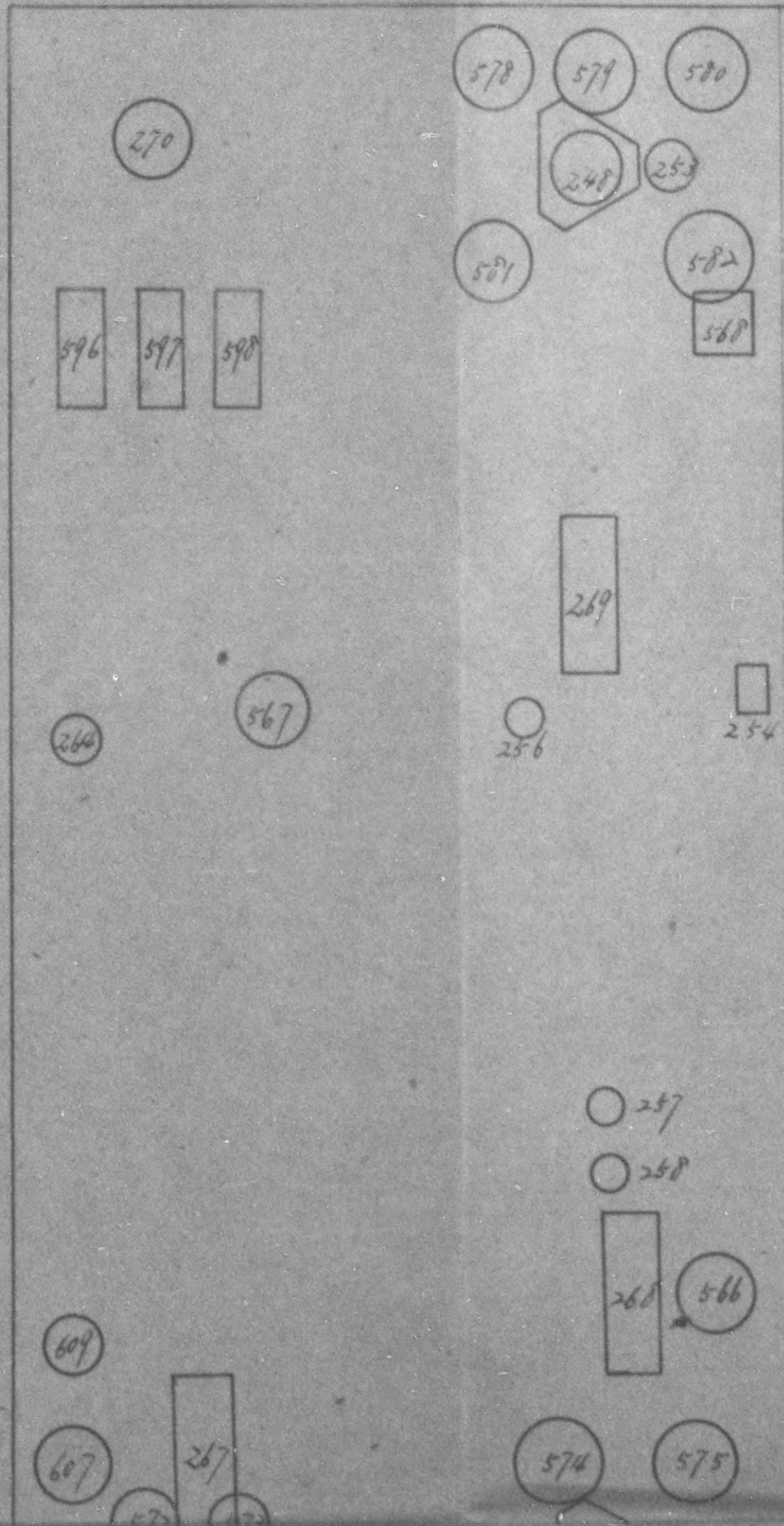
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No.9 Machine list of
Electrolyzer of Water

Number	Name	Amount
230	Electrolysis Vessels	1
231	;	1
232	;	1
233	;	1
234	;	1
235	Converter	1
236	Motor 5 HP	1
237	Transformer	1
238	;	1
239	;	1
240	Switch board	1
241	Washer for Oxygen	1
242	Washer for Hydrogen	1
243	Hydrogen holder	1
244	Equipment to getting distilled water evapo- later	1
245	Equipment to getting distilled water conden- ser	1
246	Tank for distilled water	1

243

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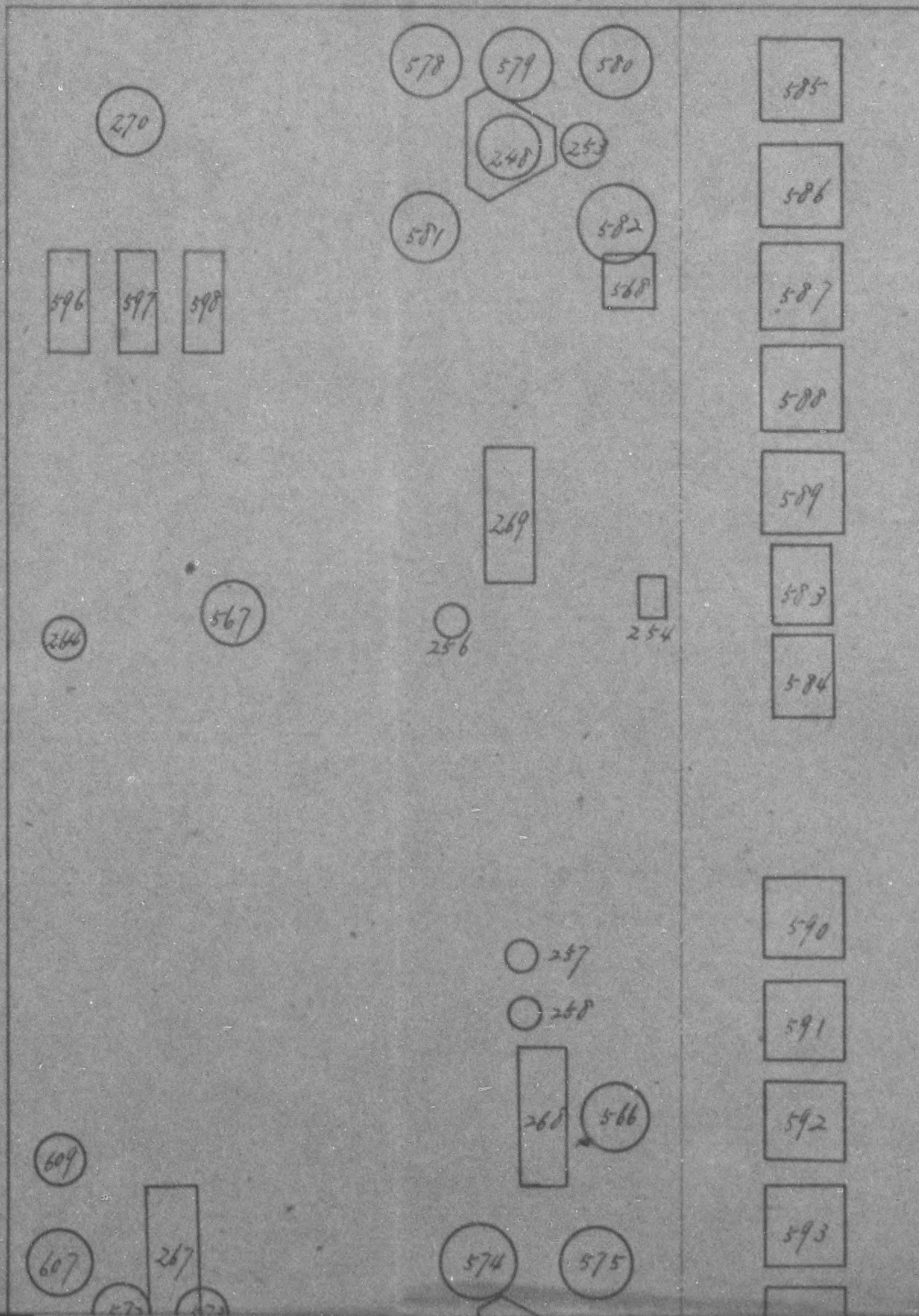


265 266 spare

250 251 spare

○ ○ ○ 259 ~ 263
 ○ ○ ○ 599 ~ 605
 ○ ○ ○ 610 ~ 619

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- No.
- Number
- 247 Alkali
 - 248 Centrif
 - 249 "
 - 250 "
 - 251 Motor
 - 252 "
 - 253 "
 - 254 Turbine
 - 255 "
 - 256 Agitate
 - 257 "
 - 258 "
 - 259 "
 - 260 "
 - 261 "
 - 262 "
 - 263 "
 - 264 Air tar
 - 265 Centrif
 - 266 Motor
 - 267 Filter
 - 268 "
 - 269 "
 - 270 Boiler

(No. 10 Apparatus)

- 566 Alkali
- 567 "
- 568 Tank o
- 569 "
- 570 Conical
- 571 "
- 572 "
- 573 "
- 574 Precip
- ↓ "
- 584 "
- 585 Wooden
- ↓ "
- 595 "
- 596 Tank o
- 597 Tank o
- 598 "
- 599 Acid p
- 600 "
- 601 "
- 602 "
- 603 "

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No.10 Machine list of Regenerating plant of Catal

Number	Name	Amount	Number	Name
247	Alkali tank	1	604	Acid proof pot
248	Centrifugar 24'	1	605	"
249	" 24'	1	606	Earthen ware
250	" 30'	1	607	"
251	Motor 3 H.P	1	608	"
252	" 3 H.P	1	609	"
253	" 7.5 H.P	1	610	Carrying pot o
254	Turbine pump	1	↓	"
255	"	1	619	"
256	Agitator	1	620	Acid proof pot
257	"	1	↓	"
258	"	1	1619	"
259	"	1	1620	Liddet pot
260	"	1	↓	"
261	"	1	1639	"
262	"	1	1640	Acid proof pot
263	"	1	↓	"
264	Air tank	1	1659	"
265	Centrifugal pump	1	1660	Acid proof pot
266	Motor 3 H.P	1	↓	"
267	Filter press	1	1679	"
268	"	1	1680	Earthen ware p
269	"	1	↓	"
270	Boiler	1	1879	"

(No.10 Apparatus and Receptacle list)

566	Alkali reservoir	1
567	"	1
568	Tank of separated liquid	1
569	"	1
570	Conical flange pot	1
571	"	1
572	"	1
573	"	1
574	Precipitator	1
↓	"	1
584	"	1
585	Wooden trough	1
↓	"	1
595	"	1
596	Tank of Alkali solution	1
597	Tank of Alkali solution	1
598	"	1
599	Acid proof pot(500L.)	1
600	"	1
601	"	1
602	"	1
603	"	1

585

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595

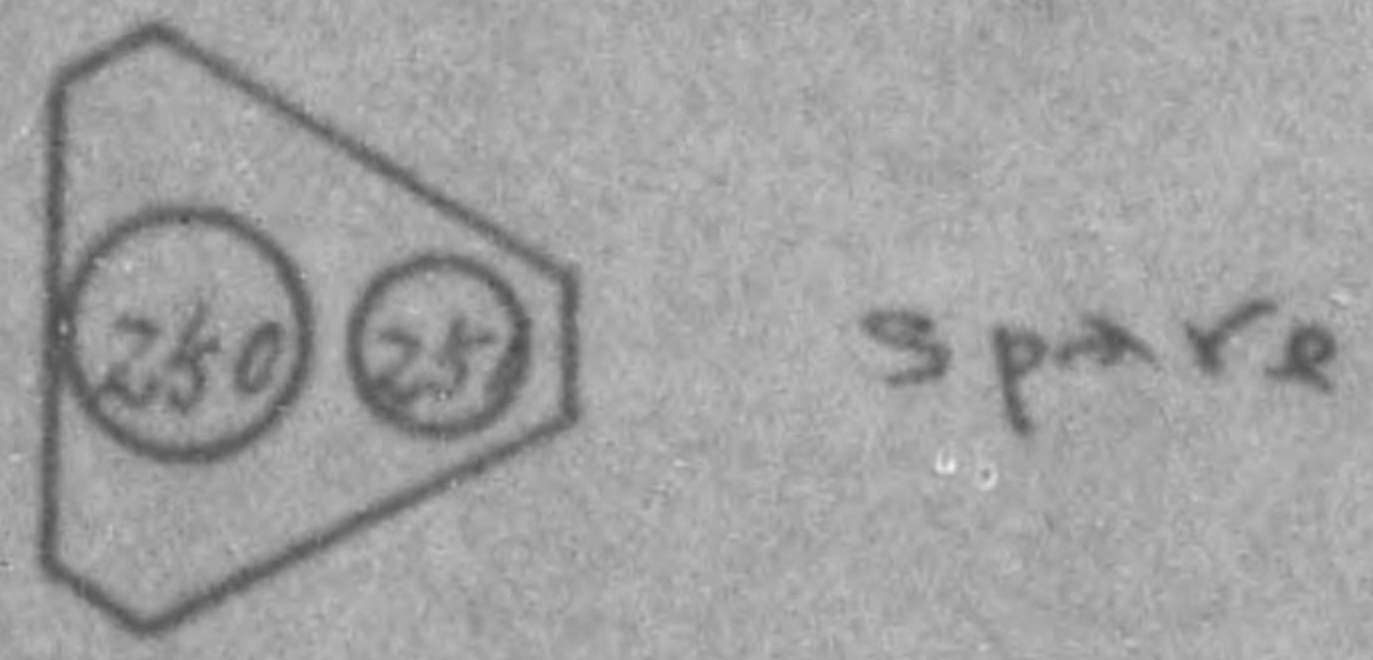
No.10 Machine list of Regenerating plant of Catalyst

Number	Name	Amount	Number	Name	Amount
247	Alkali tank	1	604	Acid proof pot(500L.)	1
248	Centrifugar 24'	1	605	" "	1
249	" " 24'	1	606	Earthen ware Kettle	1
250	" " 30'	1	607	" "	1
251	Motor 3 H.P	1	608	" "	1
252	" " 3 H.P	1	609	" "	1
253	" " 7.5 H.P	1	610	Carrying pot of Catalyst	10
254	Turbine pump	1	↓	" "	10
255	" "	1	619	" "	10
256	Agitator	1	620	Acid proof pot(27L.)	1000
257	" "	1	↓	" "	1000
258	" "	1	1619	" "	1000
259	" "	1	1620	Liddet pot	20
260	" "	1	↓	" "	20
261	" "	1	1639	" "	20
262	" "	1	1640	Acid proof pot(200L.)	20
263	" "	1	↓	" "	20
264	Air tank	1	1659	" "	20
265	Centrifugal pump	1	1660	Acid proof pot(100L.)	20
266	Motor 3 H.P	1	↓	" "	20
267	Filter press	1	1679	" "	20
268	" "	1	1680	Earthen ware pot(27L.)	200
269	" "	1	↓	" "	
270	Boiler	1	1879	" "	

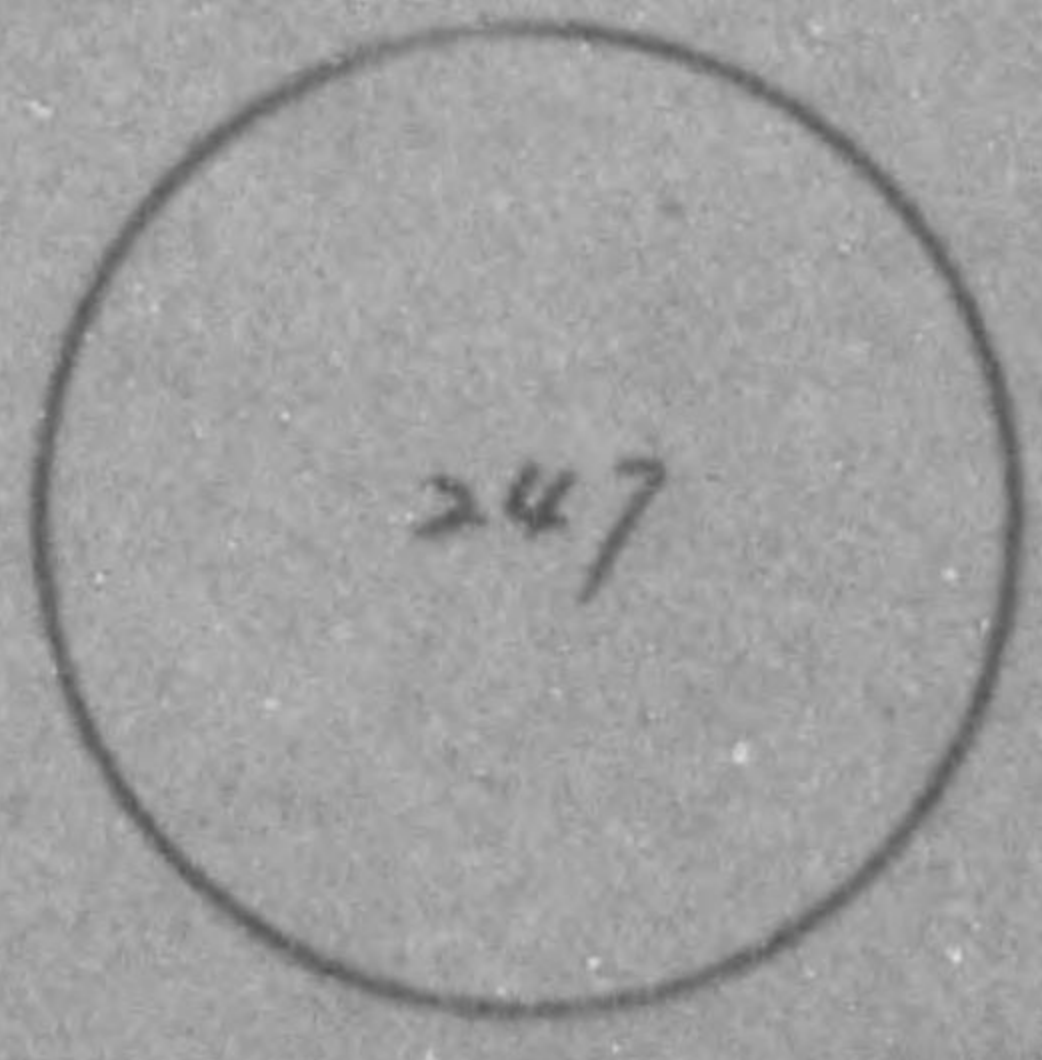
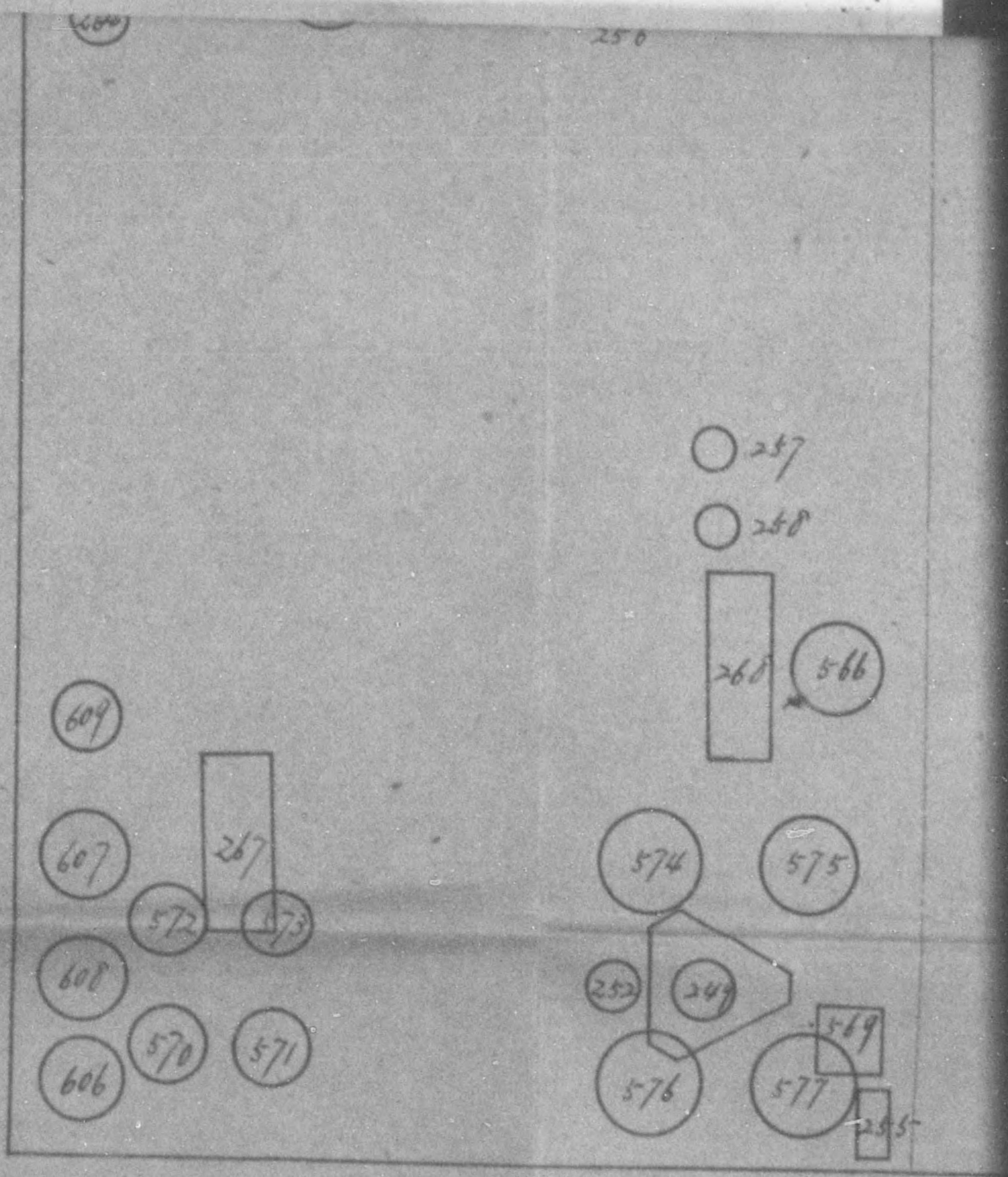
(No.10 Apparatus and Receptacle list)

566	Alkali reservoir	1
567	" "	1
568	Tank of separated liquid	1
569	" "	1
570	Conical flange pot	1
571	" "	1
572	" "	1
573	" "	1
574	Precipitator	1
↓	" "	1
584	" "	1
585	Wooden trough	1
↓	" "	1
595	" "	1
596	Tank of Alkali solution	1
597	Tank of Alkali solution	1
598	" "	1
599	Acid proof pot(500L.)	1
600	" "	1
601	" "	1
602	" "	1
603	" "	1

775 013



- ○ ○ 259 ~ 263
- ○ ○ 599 ~ 605
- ○ ○ 610 ~ 614



- 620 ~
- 1620 ~
- 1640 ~
- 1660 ~
- 1680 ~

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250

584

- 570 Conical flar
- 571 "
- 572 "
- 573 "
- 574 Precipitator
- ↓ "
- 584 "
- 585 Wooden trough
- ↓ "
- 595 "
- 596 Tank of Alka
- 597 Tank of Alka
- 598 "
- 599 Acid proof p
- 600 "
- 601 "
- 602 "
- 603 "

590

○ 257

591

○ 258

268

○ 566

592

593

○ 574 ○ 575

594

○ 252 ○ 249

595

○ 569

○ 576 ○ 577

255

- 620 ~ 1619
- 1620 ~ 1639
- 1640 ~ 1659
- 1660 ~ 1679
- 1680 ~ 1679

247

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584

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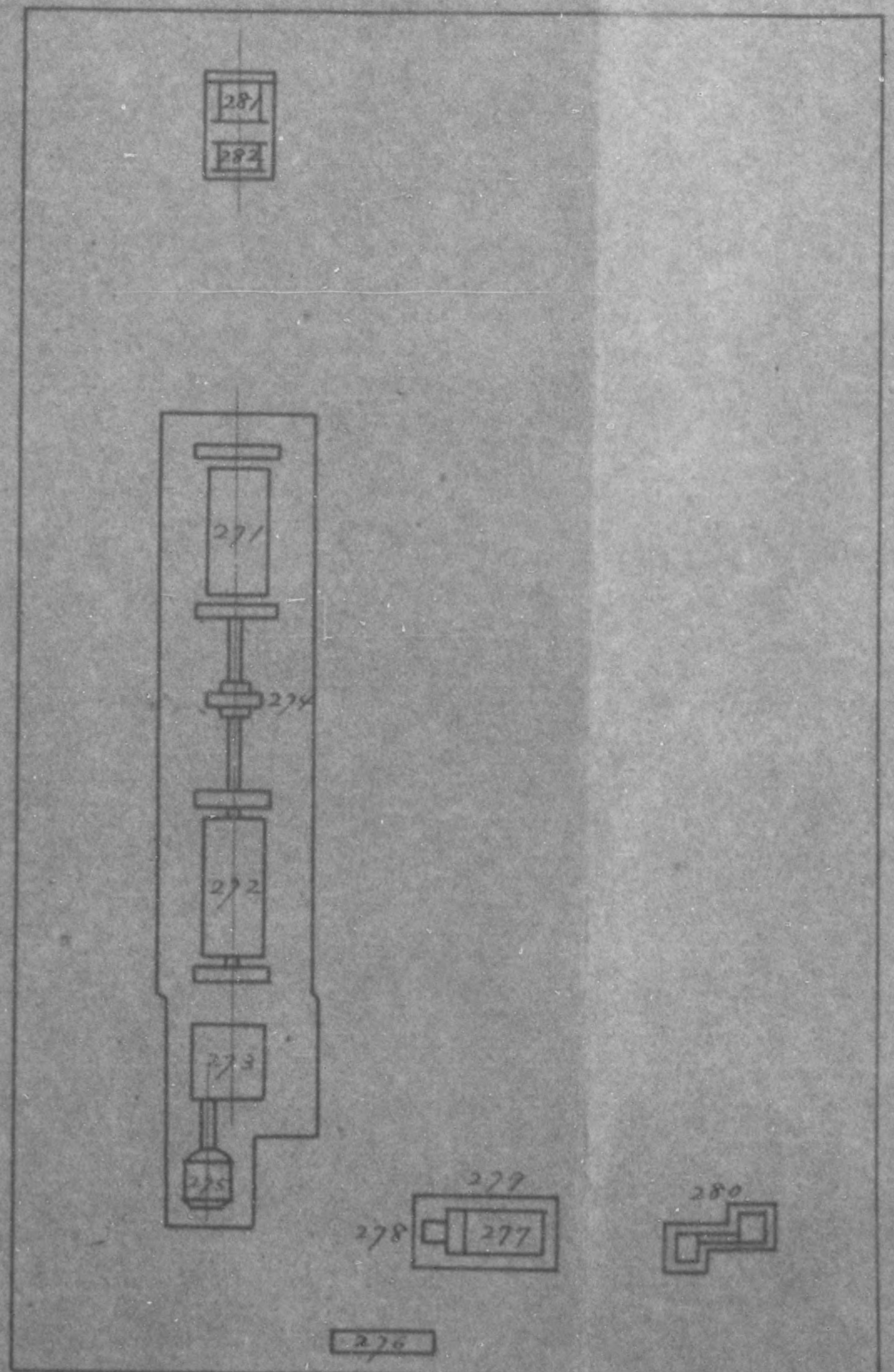
570	Conical flange pot	1
571	"	1
572	"	1
573	"	1
574	Precipitator	1
↓	"	1
584	"	1
585	Wooden trough	1
↓	"	1
595	"	1
596	Tank of Alkali solution	1
597	Tank of Alkali solution	1
598	"	1
599	Acid proof pot(500L.)	1
600	"	1
601	"	1
602	"	1
603	"	1

1620 ~ 1619
 1630 ~ 1639
 1640 ~ 1659
 1660 ~ 1679
 1680 ~ 1679

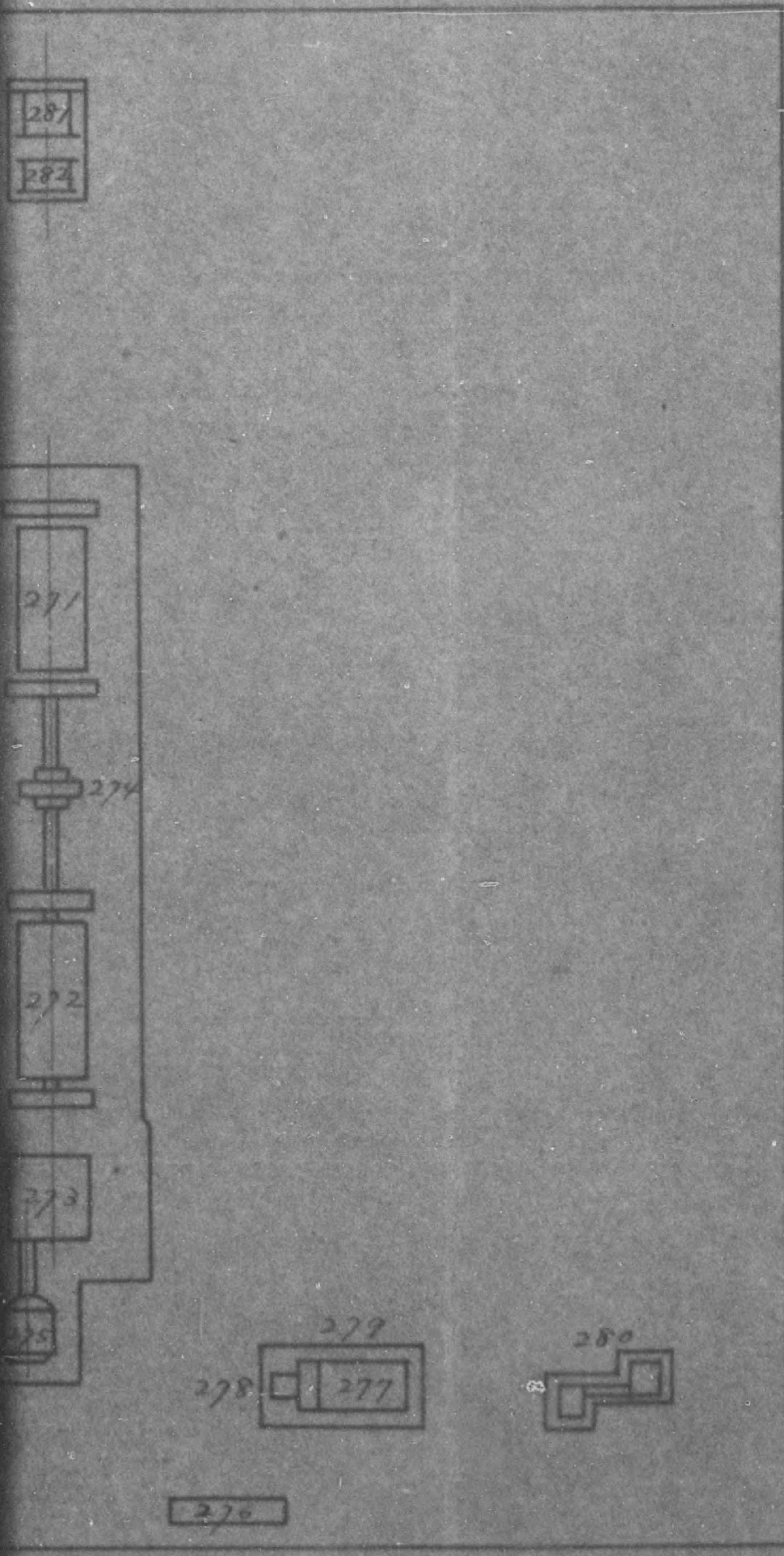
570	Conical flange pot	1
571	"	1
572	"	1
573	"	1
574	Precipitator	1
↓	"	1
584	"	1
585	Wooden trough	1
↓	"	1
595	"	1
596	Tank of Alkali solution	1
597	Tank of Alkali solution	1
598	"	1
599	Acid proof pot(500L.)	1
600	"	1
601	"	1
602	"	1
603	"	1

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Scale $\frac{1}{200}$



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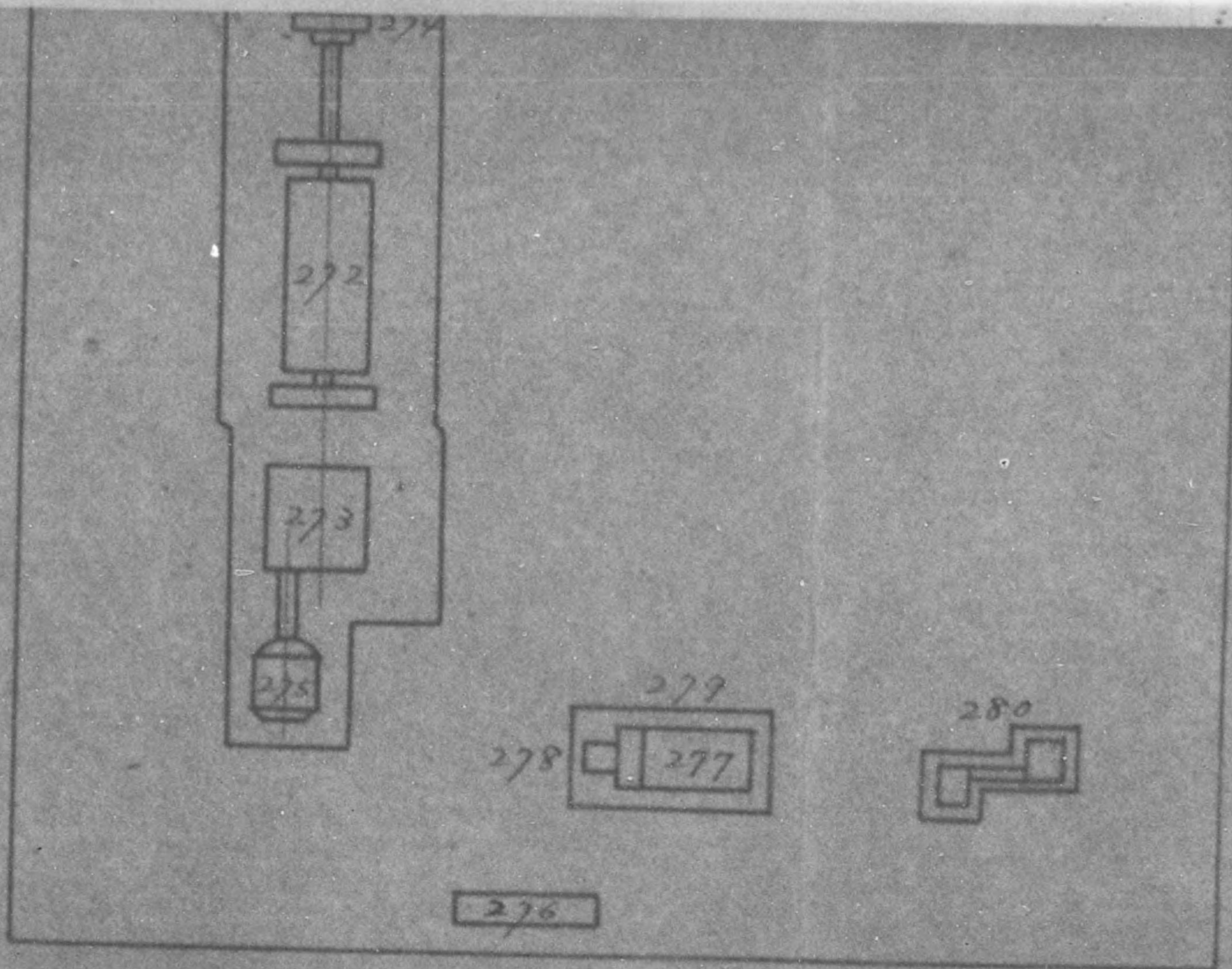
No.11 Machine list of Rolling plant

Number	Name	Amount
271	Mixing roll	1
272	"	1
273	Reducer	1
274	Counter shaft	1
275	Motor 100 H.P	1
276	Switch board	1
277	Mixing roll	1
278	Motor 5 H.P	1
279	Reducer	1
280	Press vulcanization	1
281	Exhanst fan	1
282	Motor 10 H.P	1

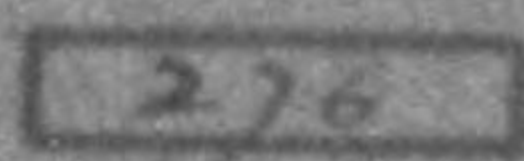
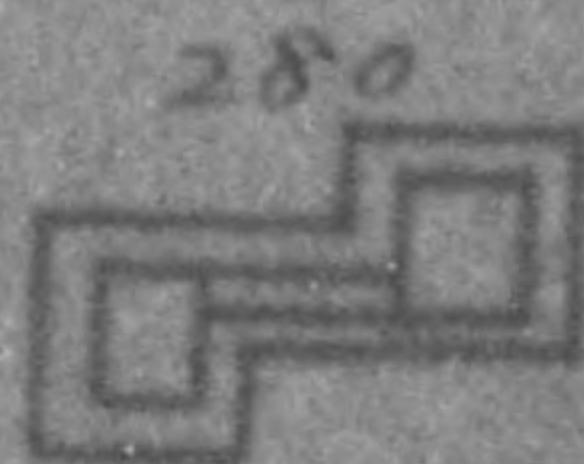
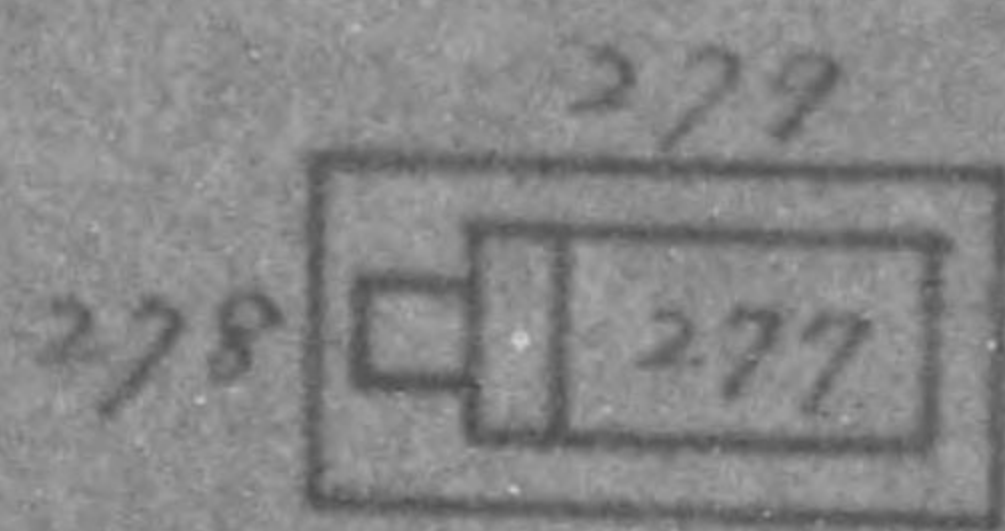
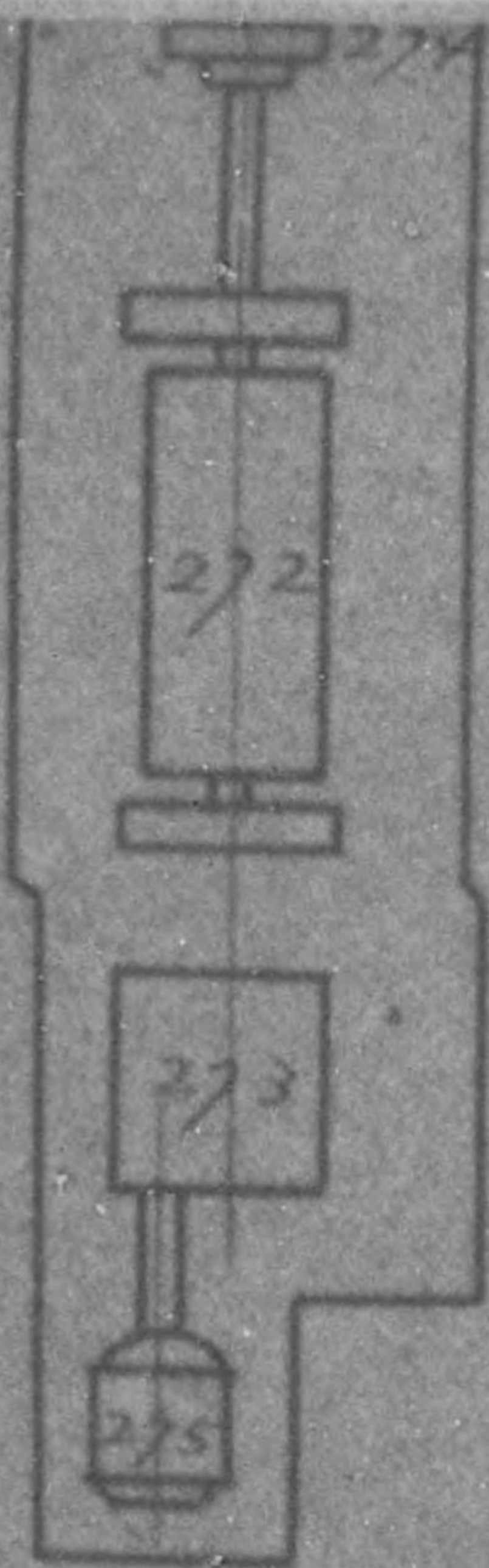
No.11 Machine list of Rolling plant

Number	Name	Amount
271	Mixing roll	1
272	"	1
273	Reducer	1
274	Counter shaft	1
275	Motor 100 H.P	1
276	Switch board	1
277	Mixing roll	1
278	Motor 5 H.P	1
279	Reducer	1
280	Press vulcanization	1
281	Exhanst fan	1
282	Motor 10 H.P	1

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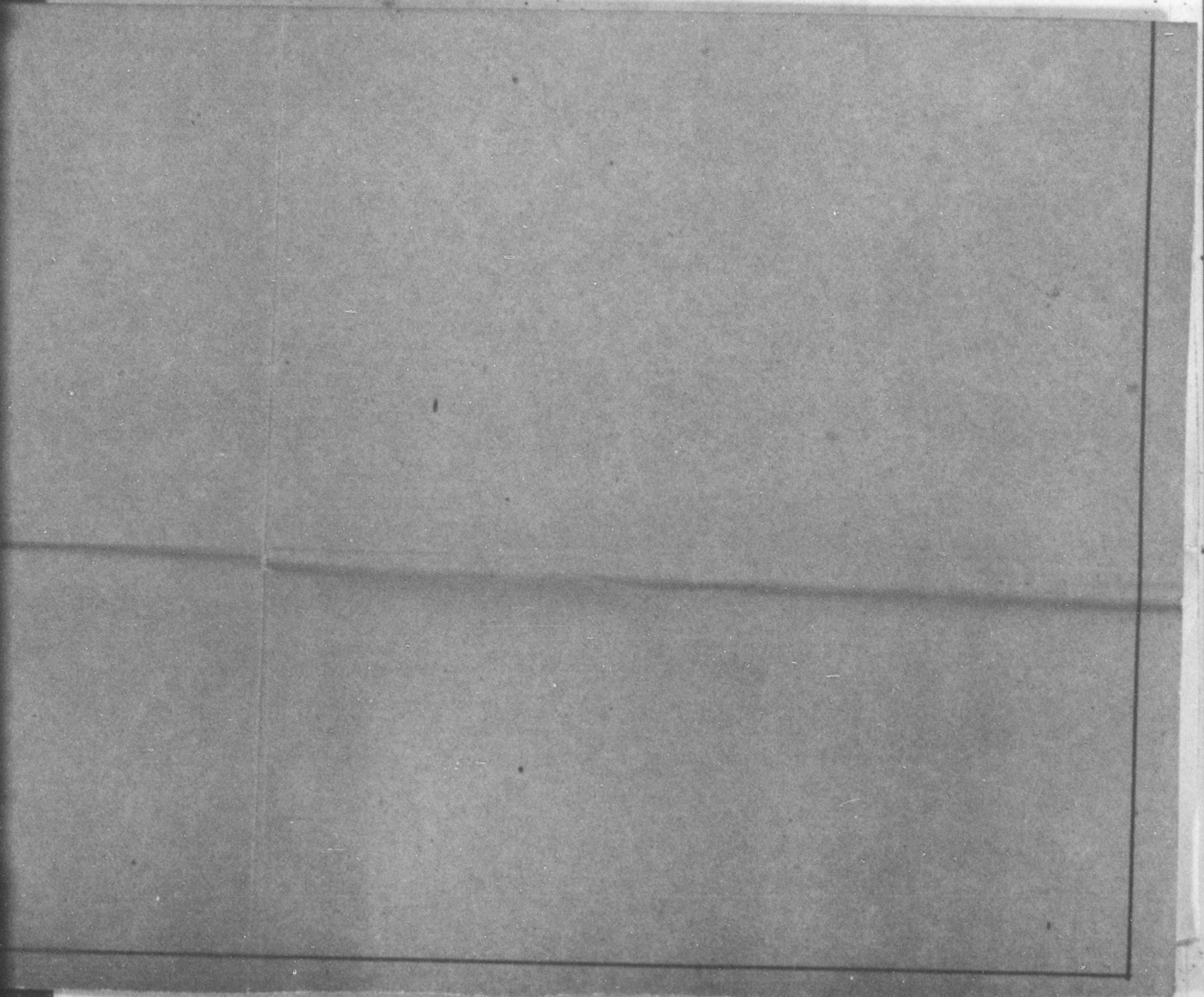


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280

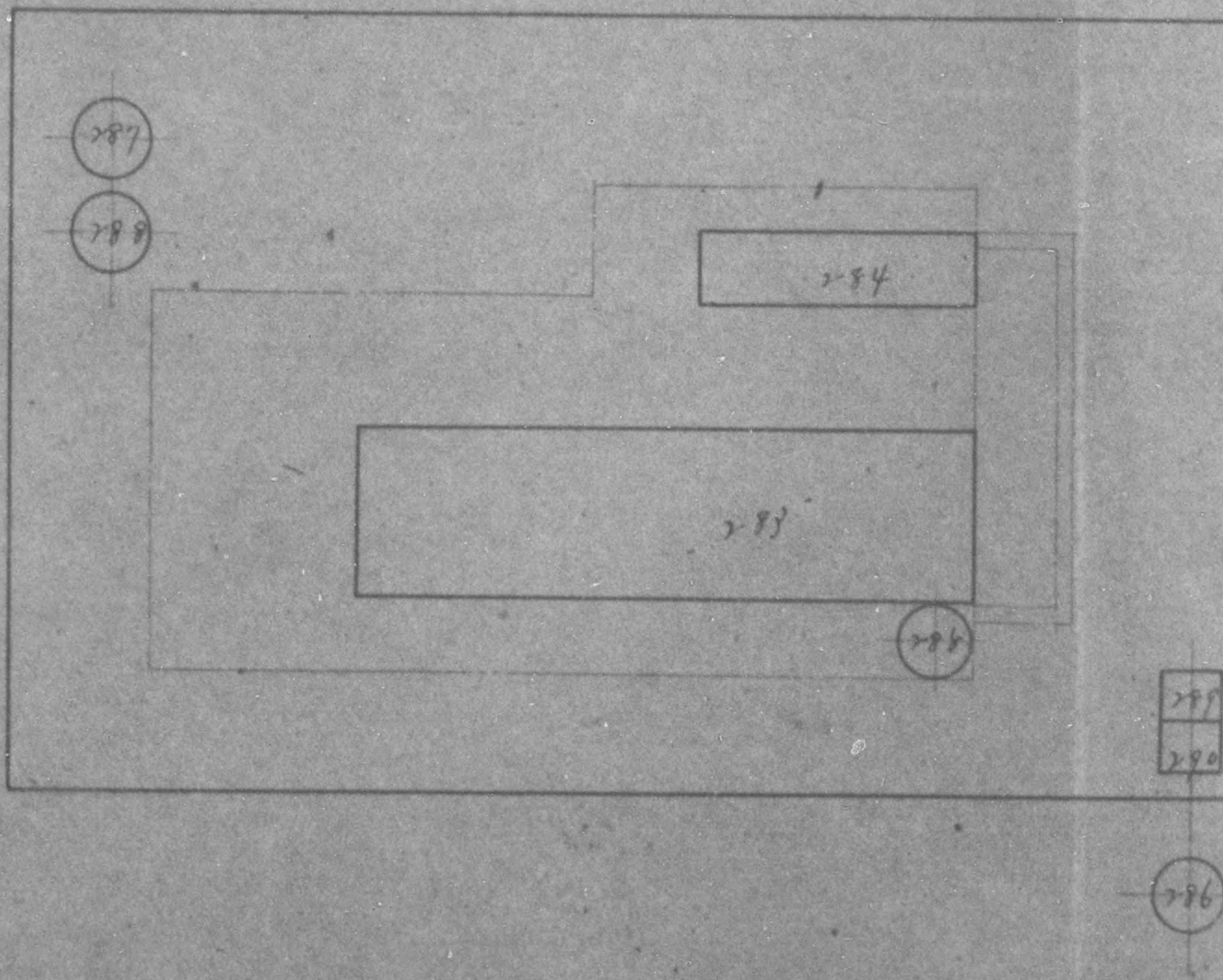


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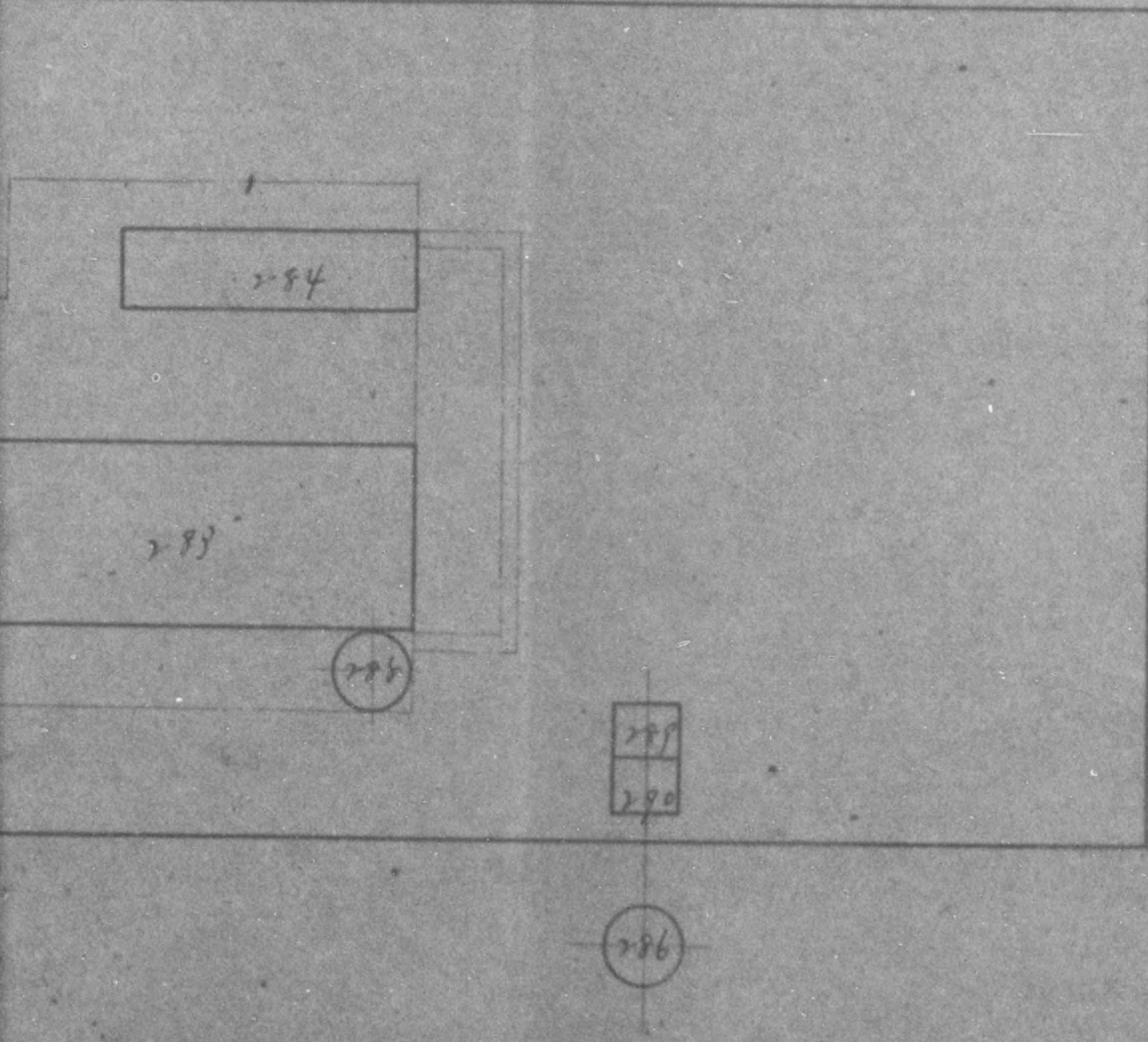


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Scale $\frac{1}{100}$



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No. 12 Machine list of chamber

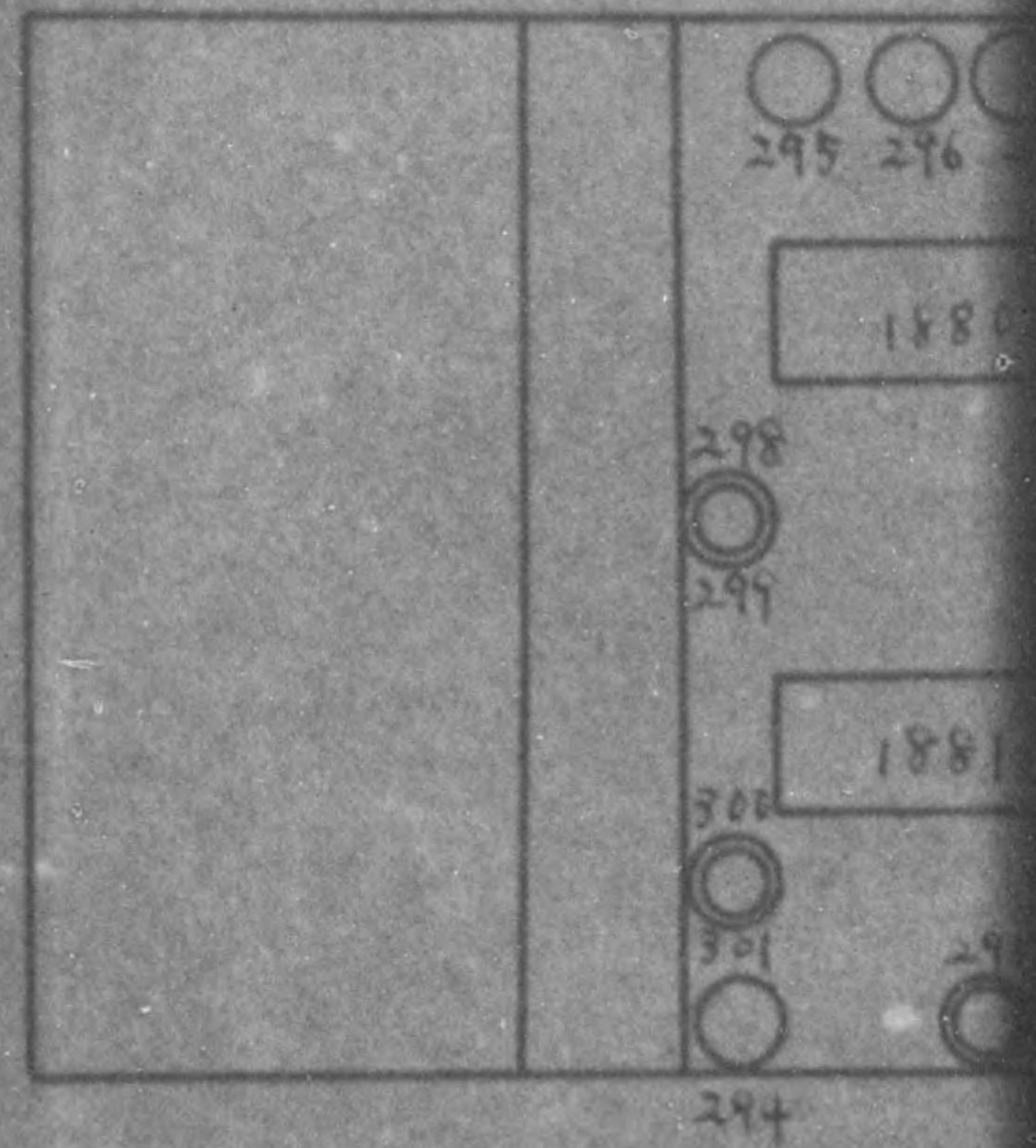
- 283 Boiler
- 284 "
- 285 Feed tank
- 286 "
- 287 Kettle
- 288 "
- 289 Washington pump
- 290 "

No. 12 Machine list of Boiler chamber

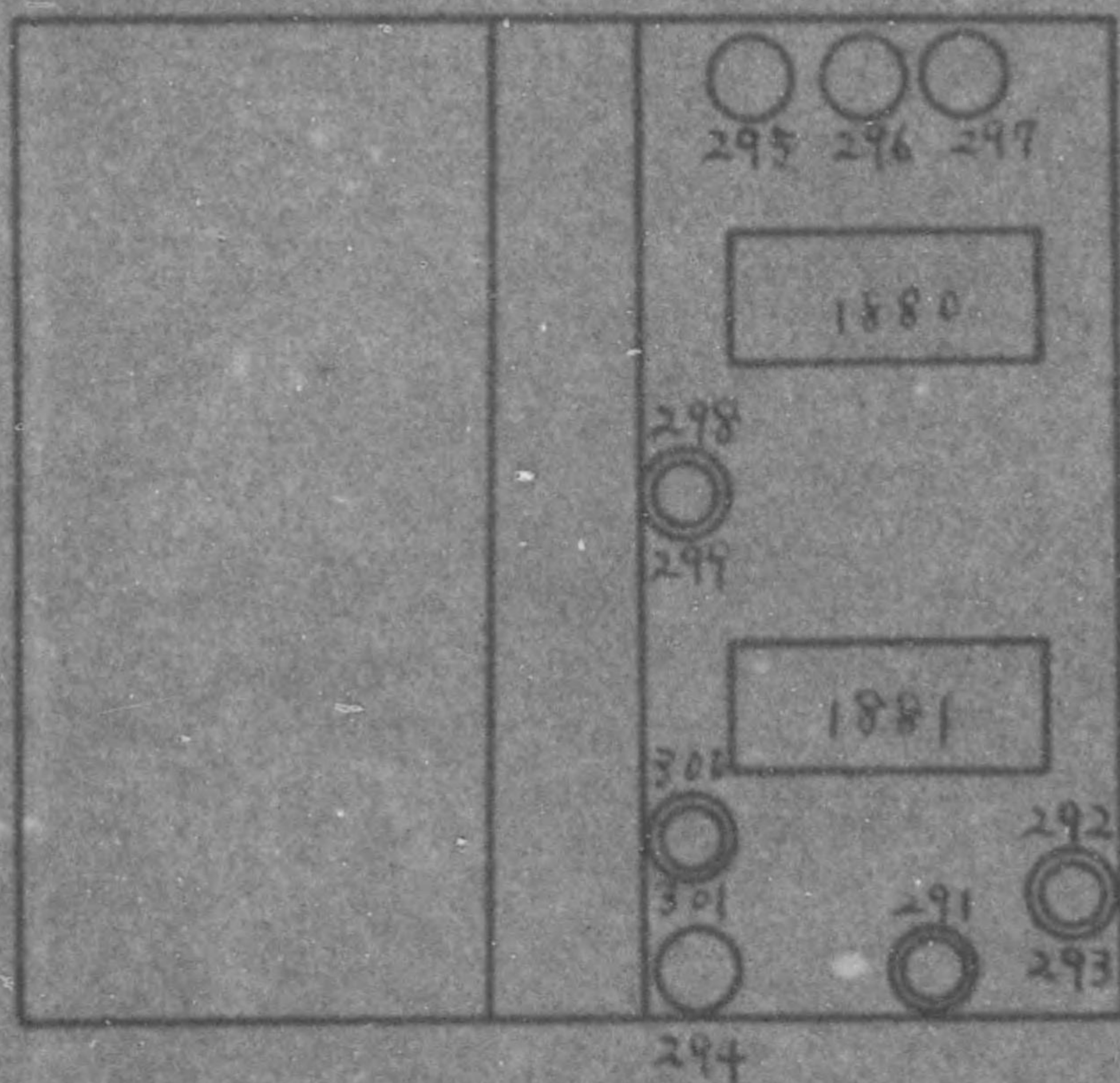
283 Boiler	1
284 "	1
285 Feed tank	1
286 "	1
287 Kettle	1
288 "	1
289 Washington pump	1
290 "	1

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Scale $\frac{1}{200}$



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No.13 Machine list of Tester R

- 291 Testing machine for tensile strength
- 292 Testing machine for Ageing
- 293 Motor 1/2 H.P
- 294 Cutter test piece
- 295 Thermostat by air
- 296 " "
- 297 " "
- 298 Emulsifyer(Hareru)
- 299 Motor 2 H.P
- 300 Vacuum pump
- 301 Motor 1/4 H.P

(No.13 Apparatus and Receptacle

- 1880 Analysis table
- 1881 " "

No.13 Machine list of Tester Room

291	Testing machine for tensile strength	1
292	Testing machine for Ageing	1
293	Motor 1/2 H.P	1
294	Cutter test piece	1
295	Thermostat by air	1
296	" "	1
297	" "	1
298	Emulsifyer(Harera)	1
299	Motor 2 H.P	1
300	Vaccum pump	1
301	Motor 1/4 H.P	1

No.13 Apparatus and Receptacle list)

380	Analysis table	1
381	" "	1