

FIG. 1

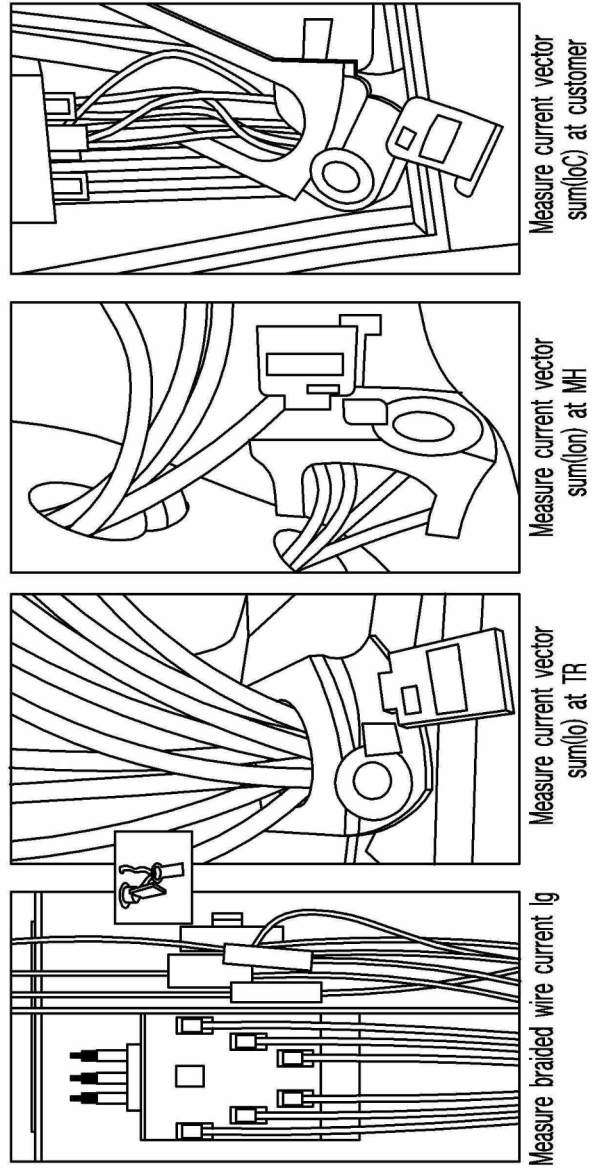


FIG. 2

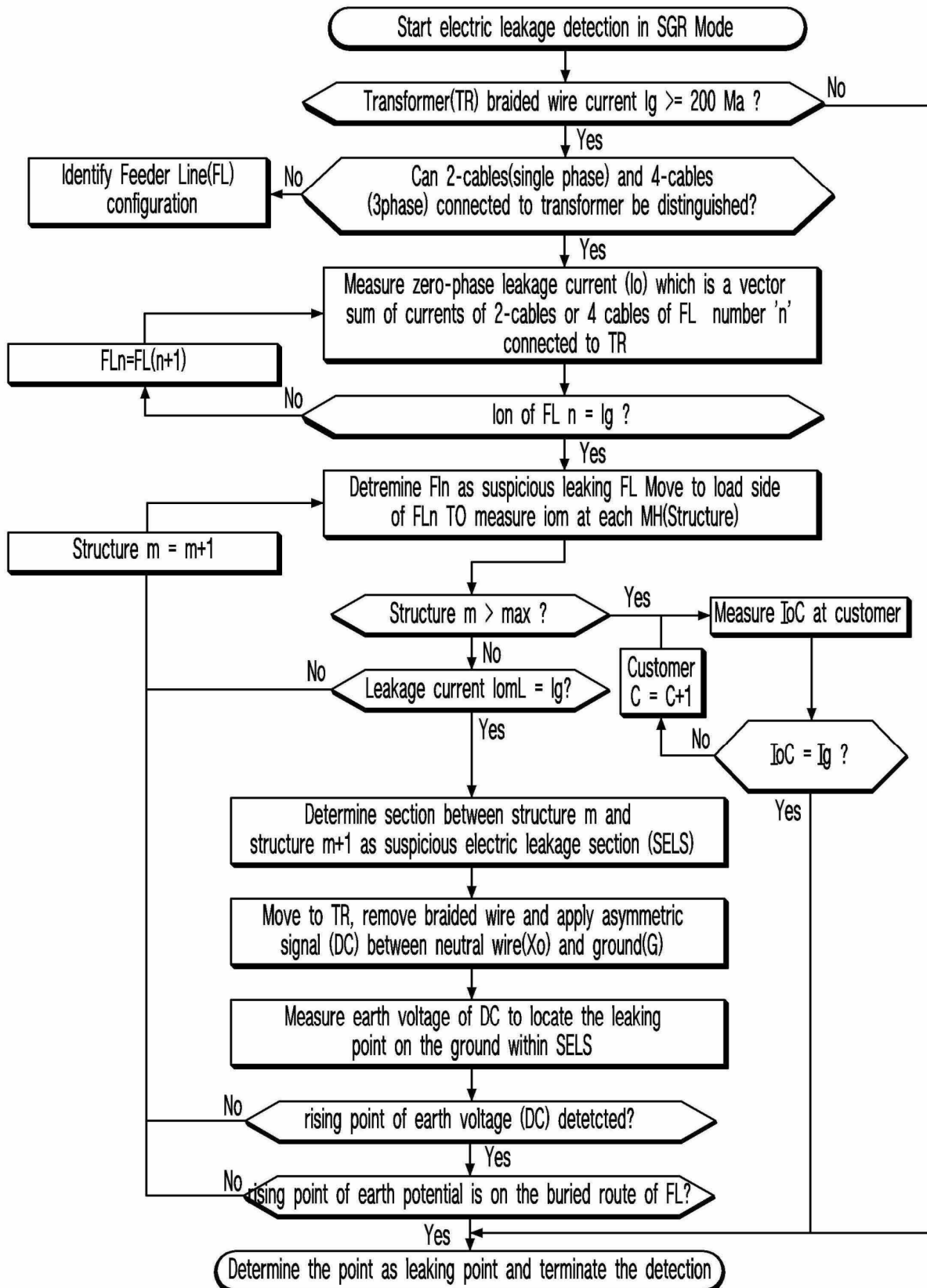


FIG. 3

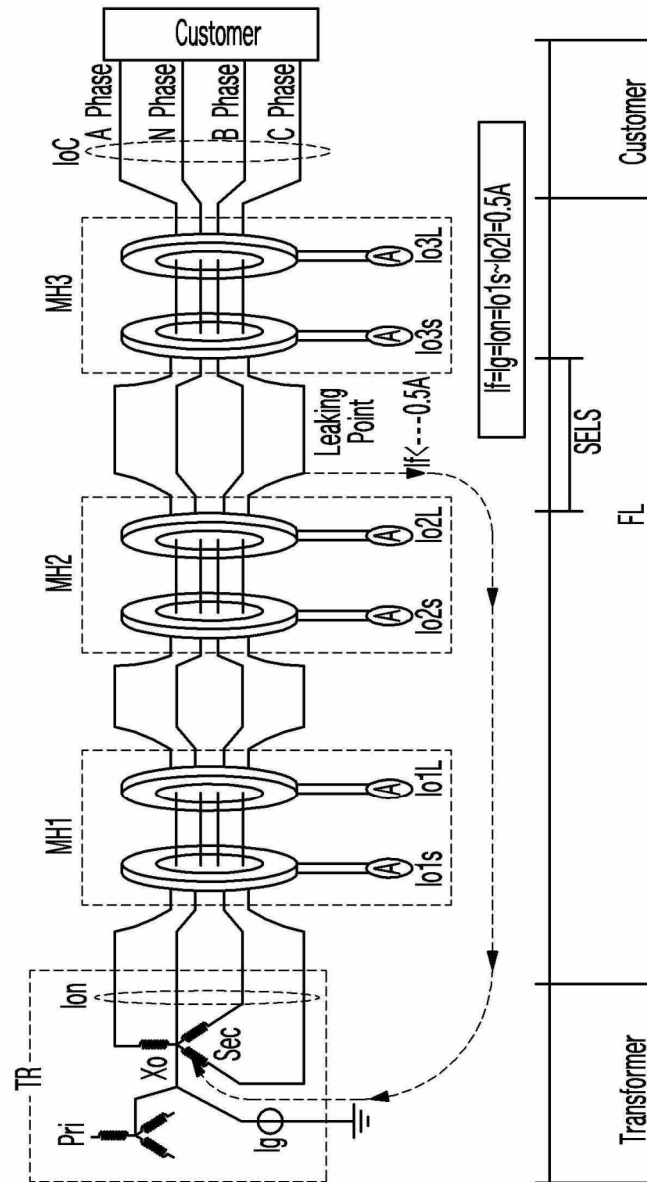


FIG. 4

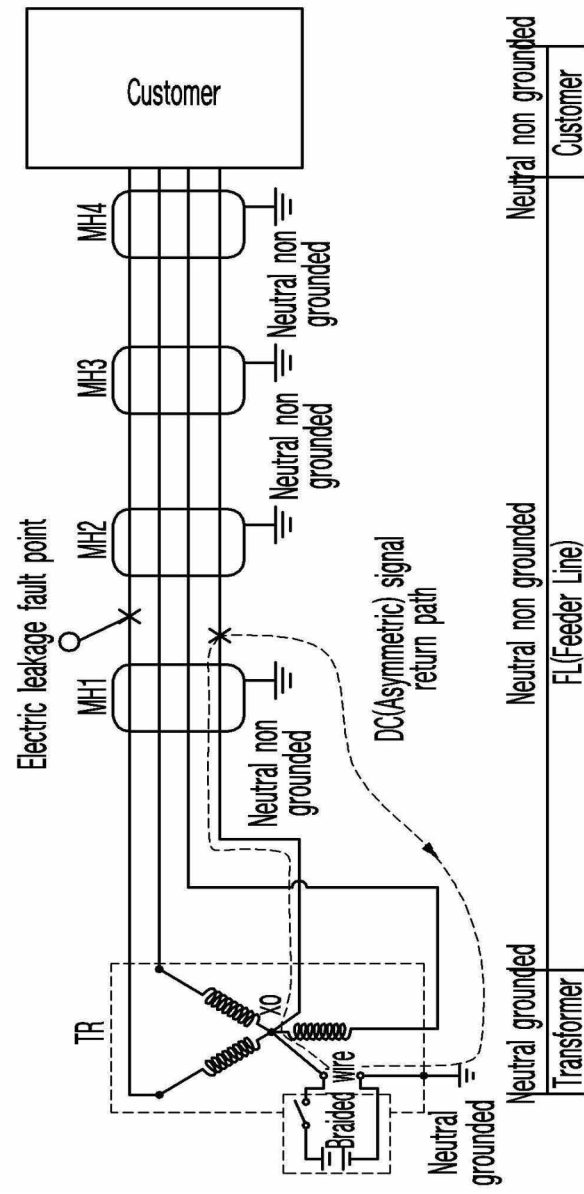


FIG. 6

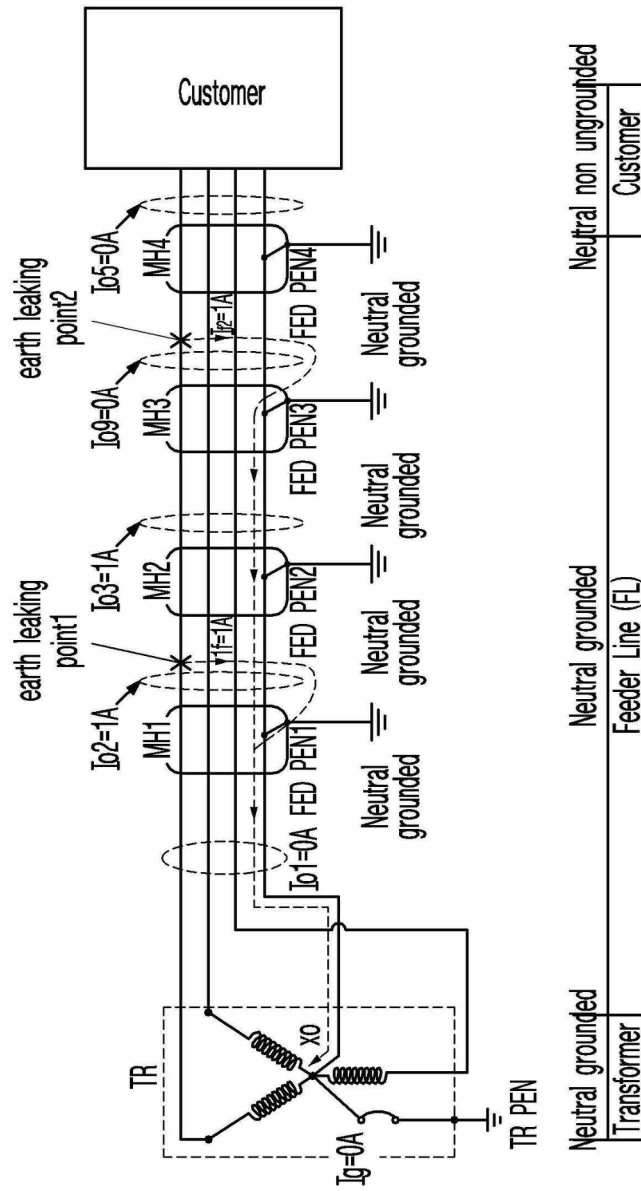


FIG. 7

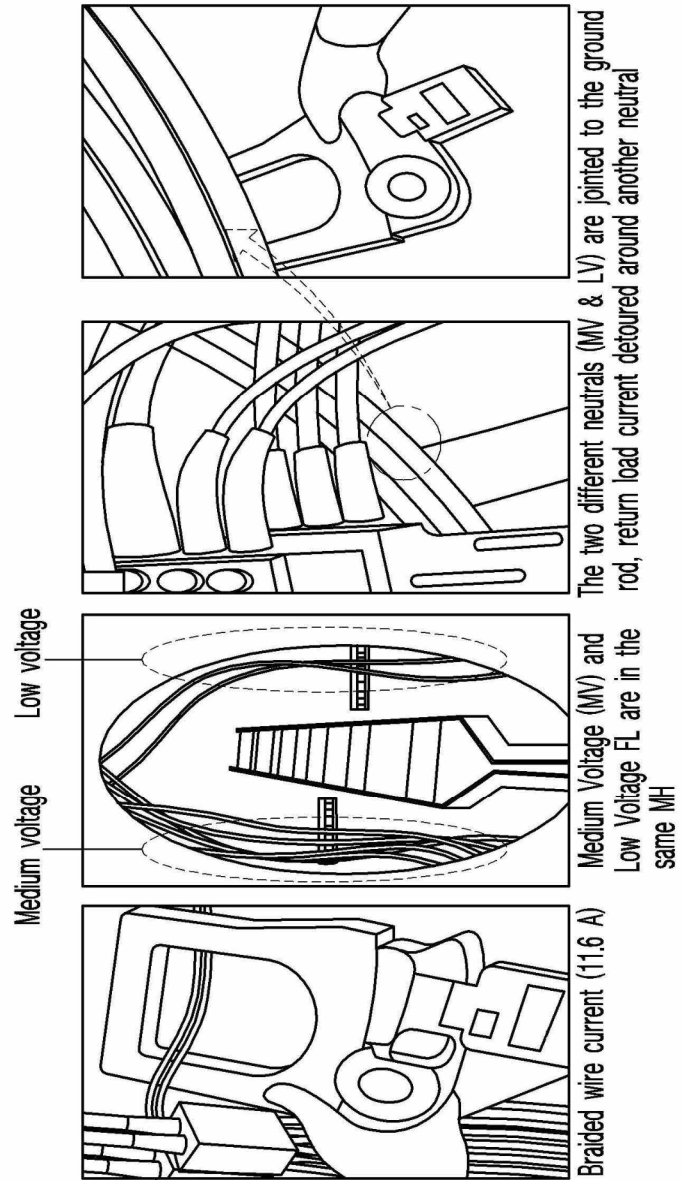


FIG. 8

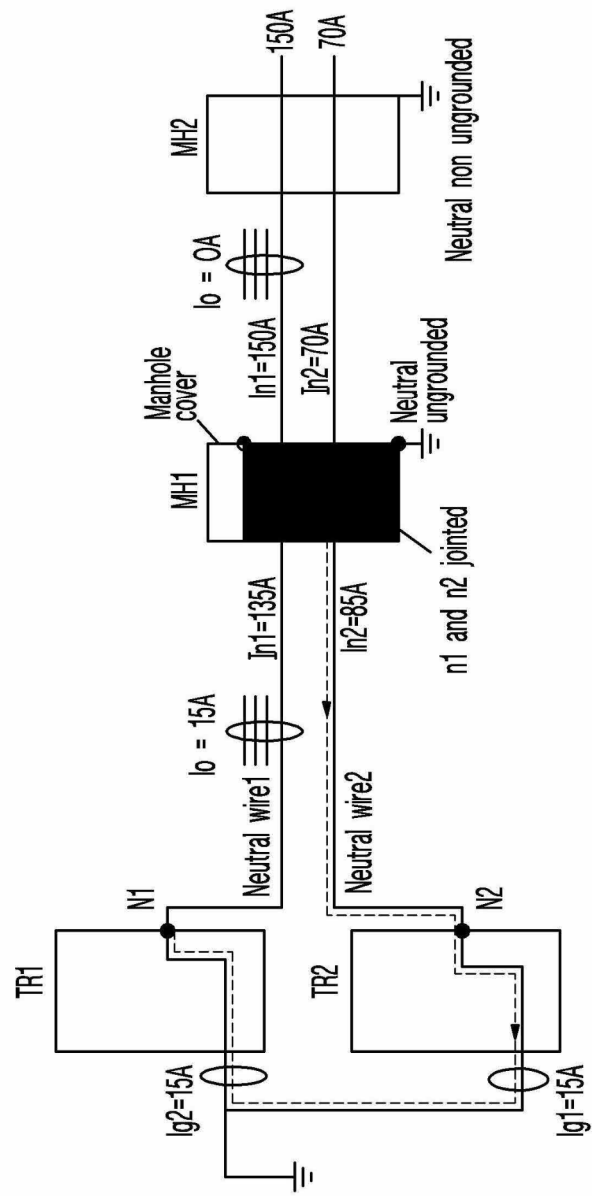


FIG. 9

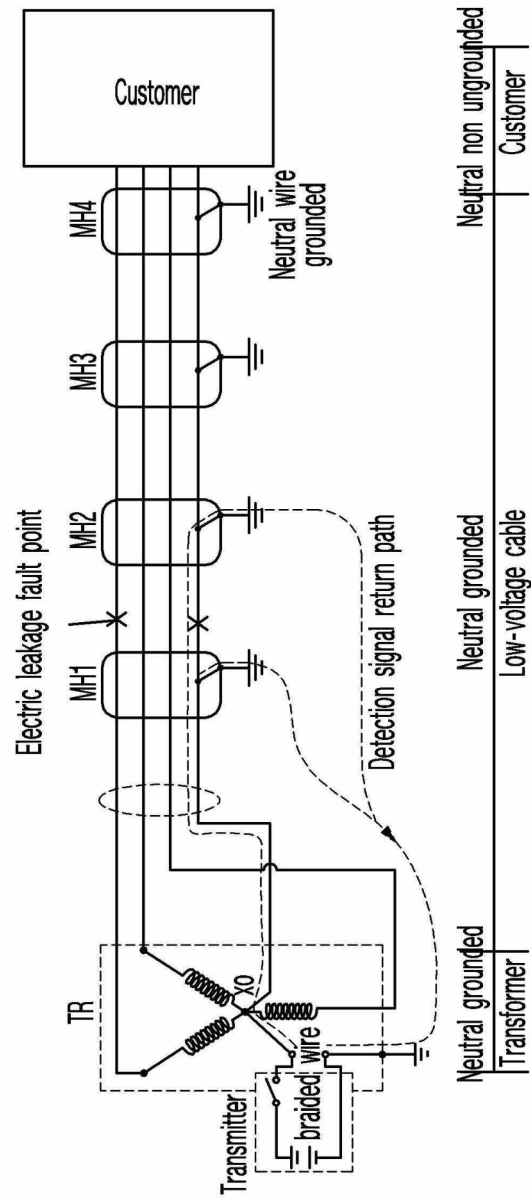


FIG. 10

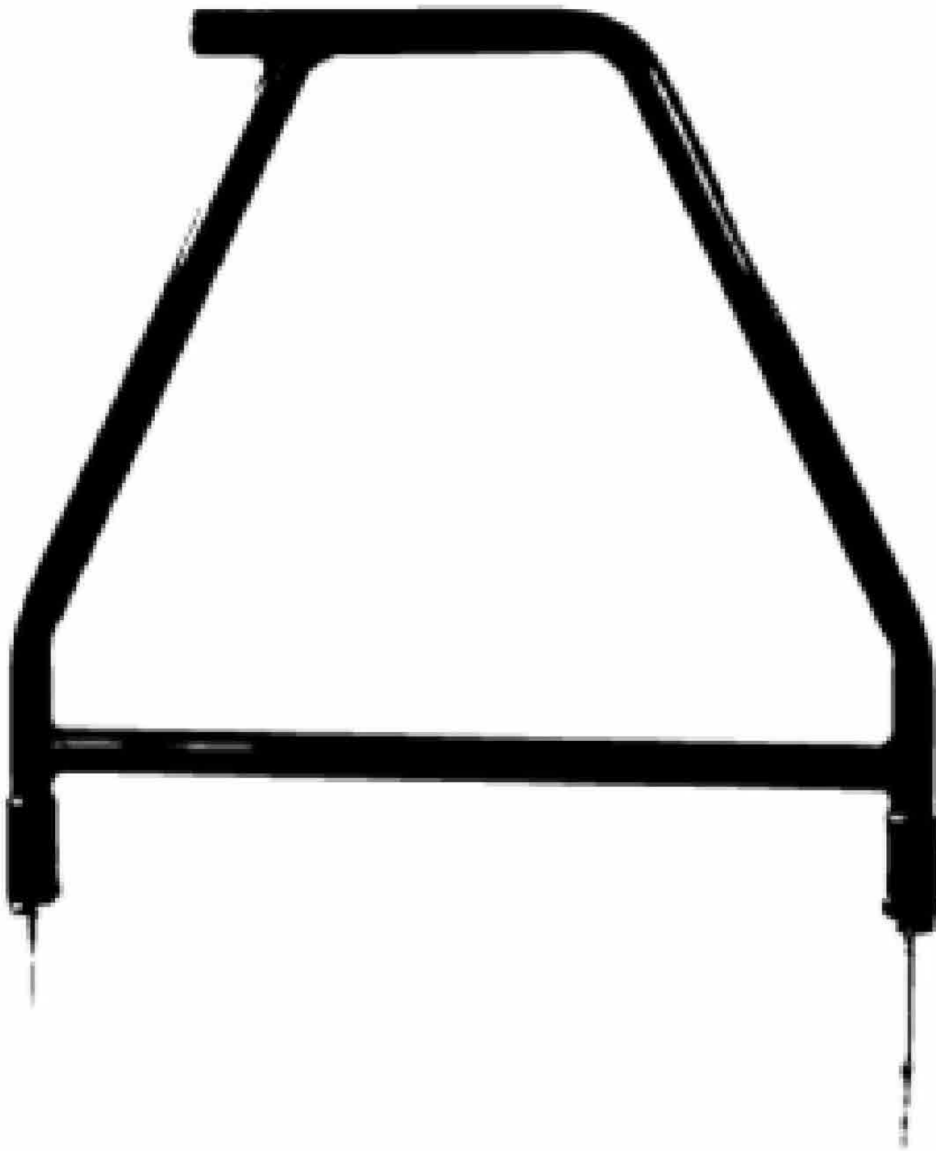


FIG. 11

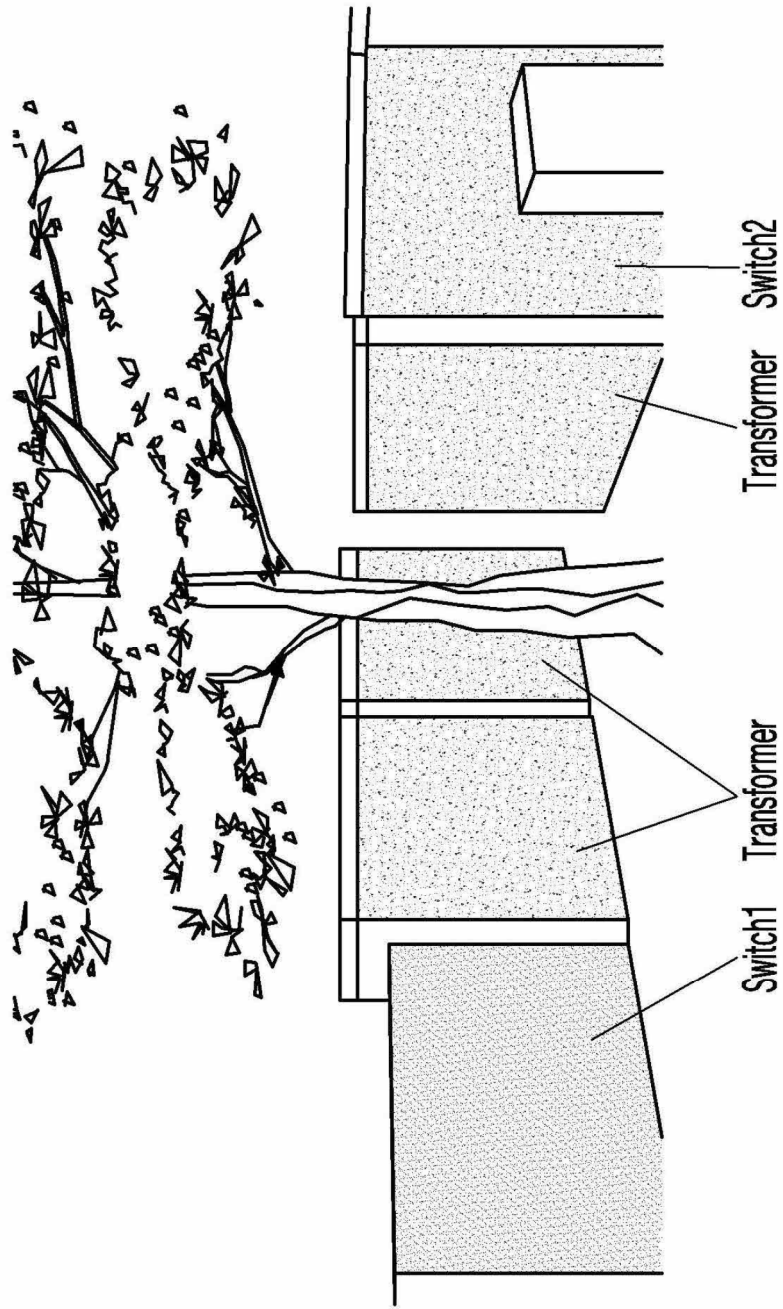


FIG. 12

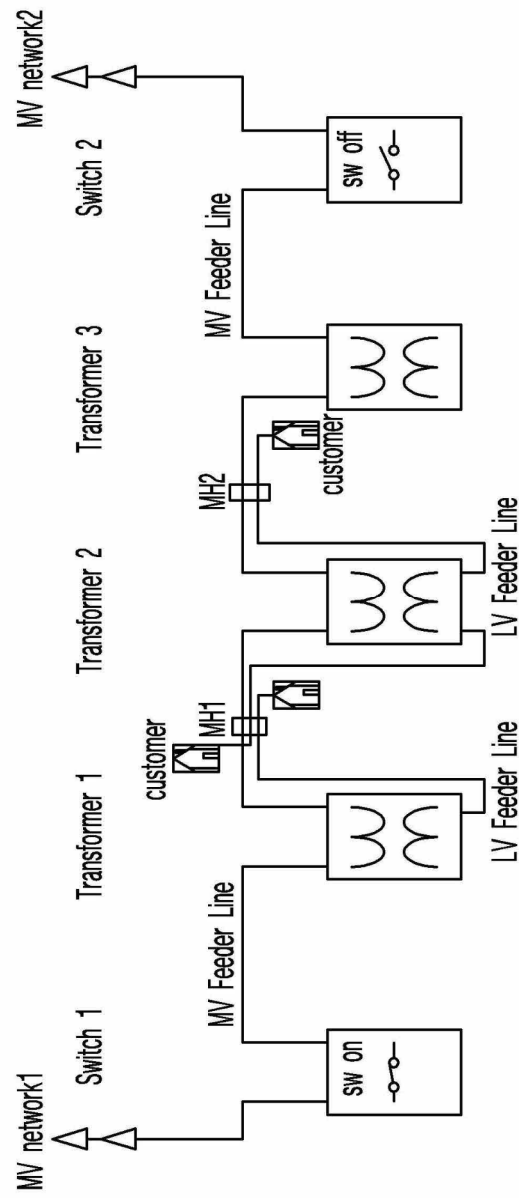


FIG. 13

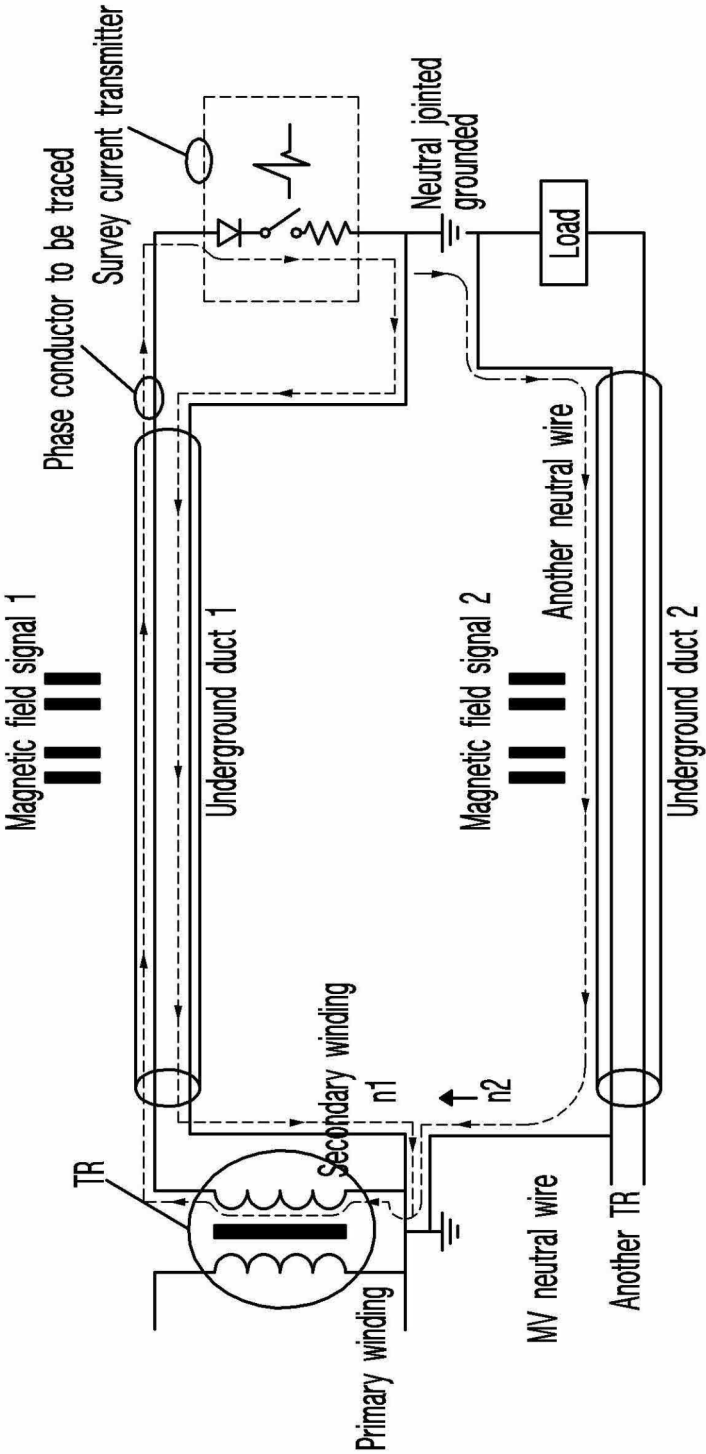


FIG. 14

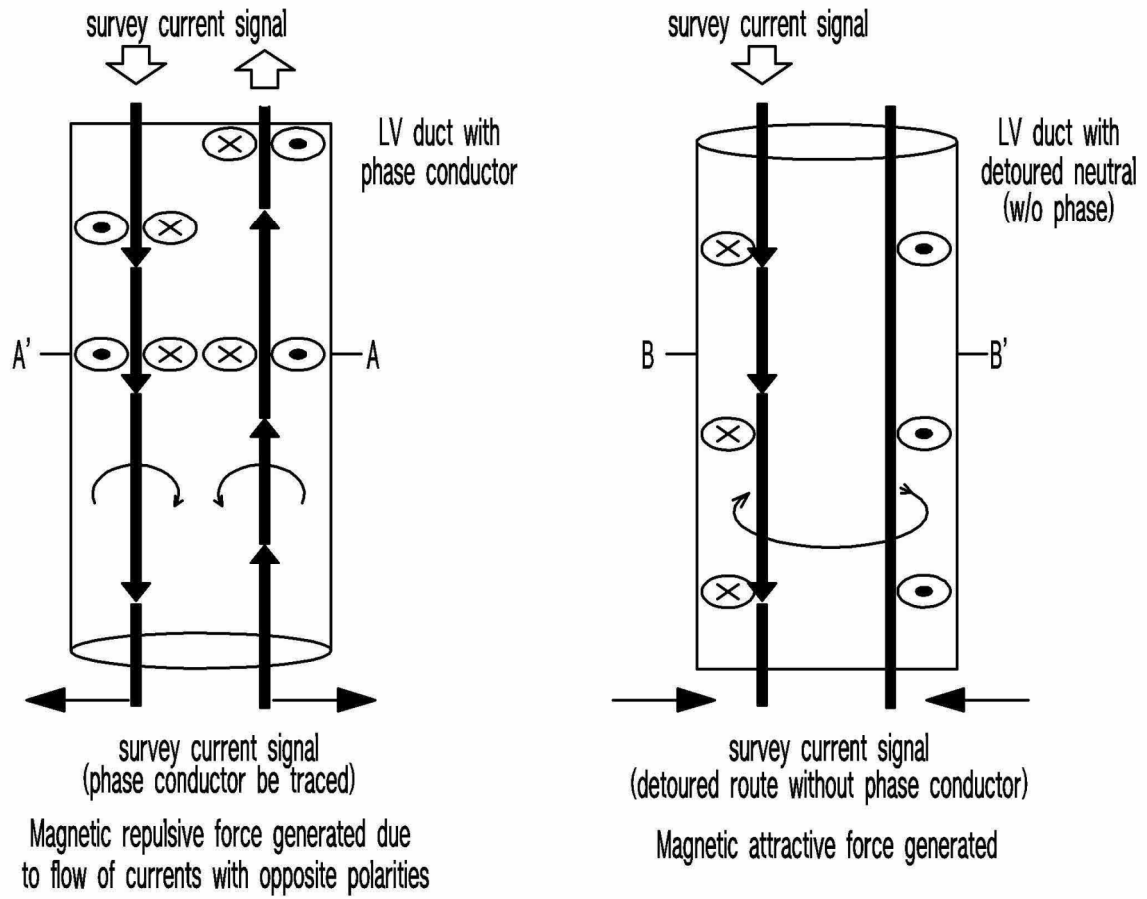


FIG. 15

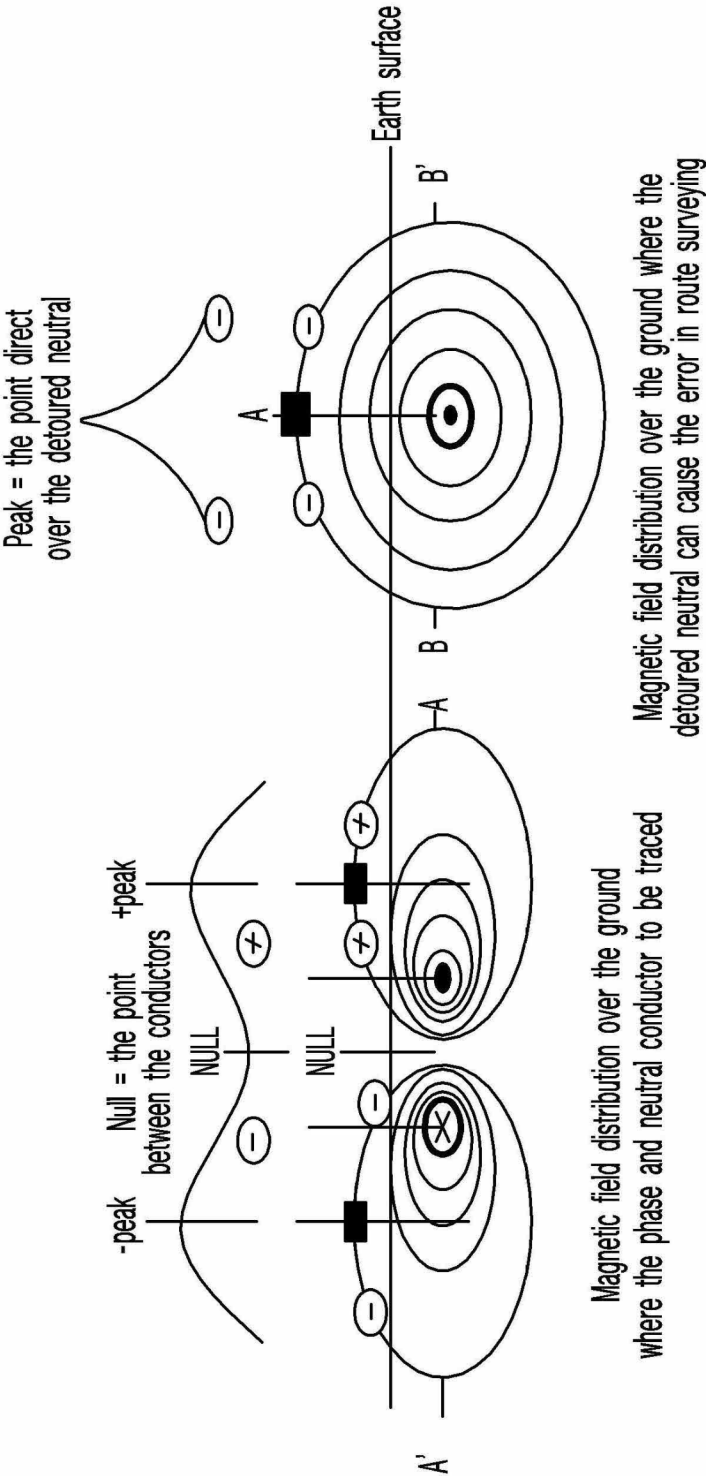


FIG. 16

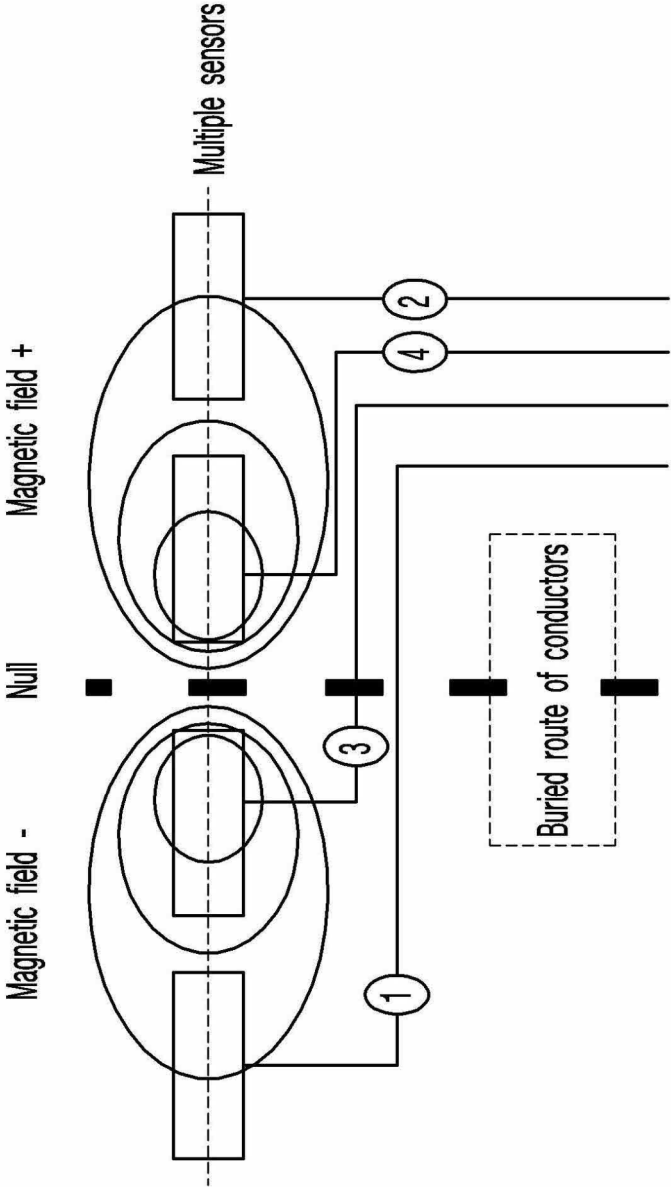


FIG. 17

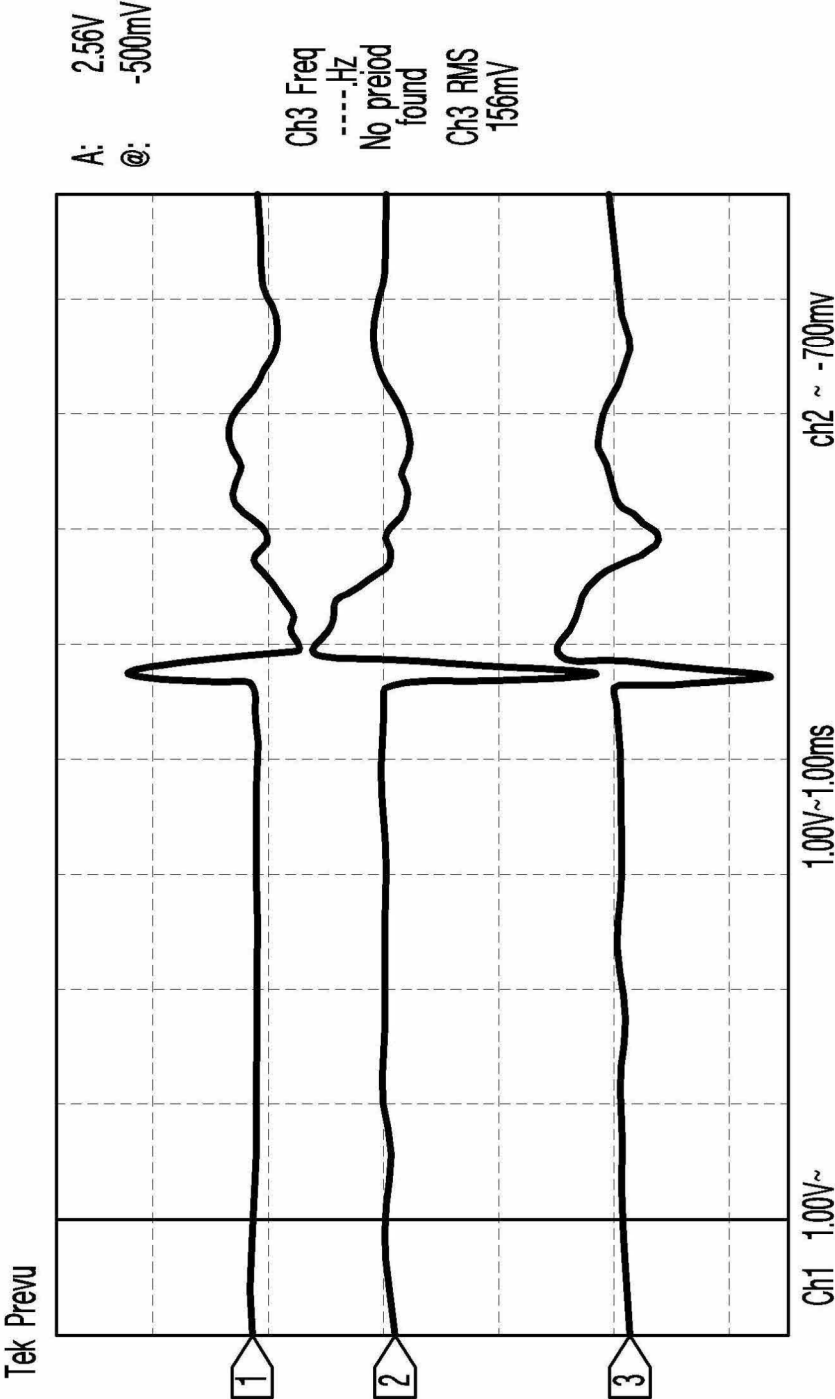


FIG. 18

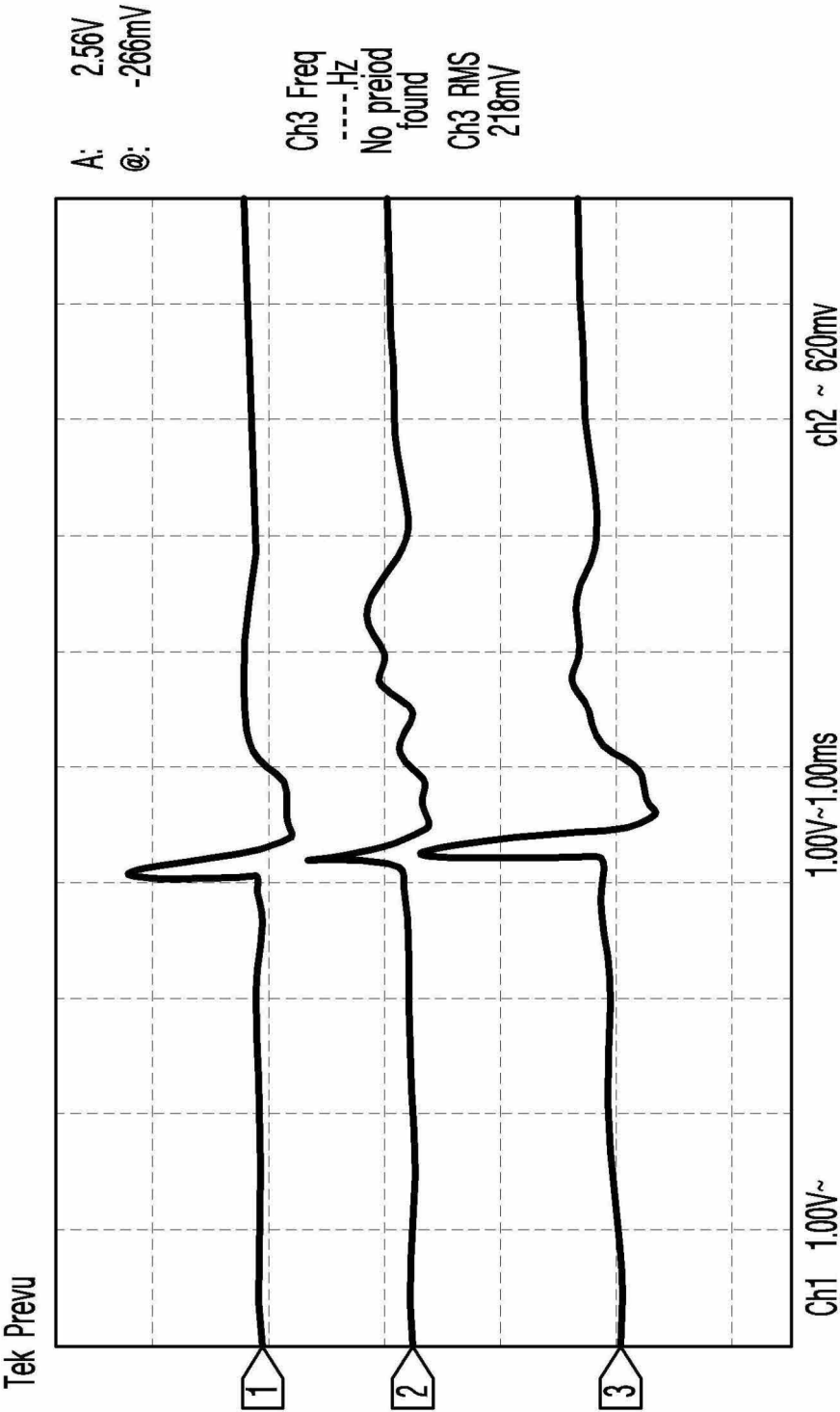


FIG. 19

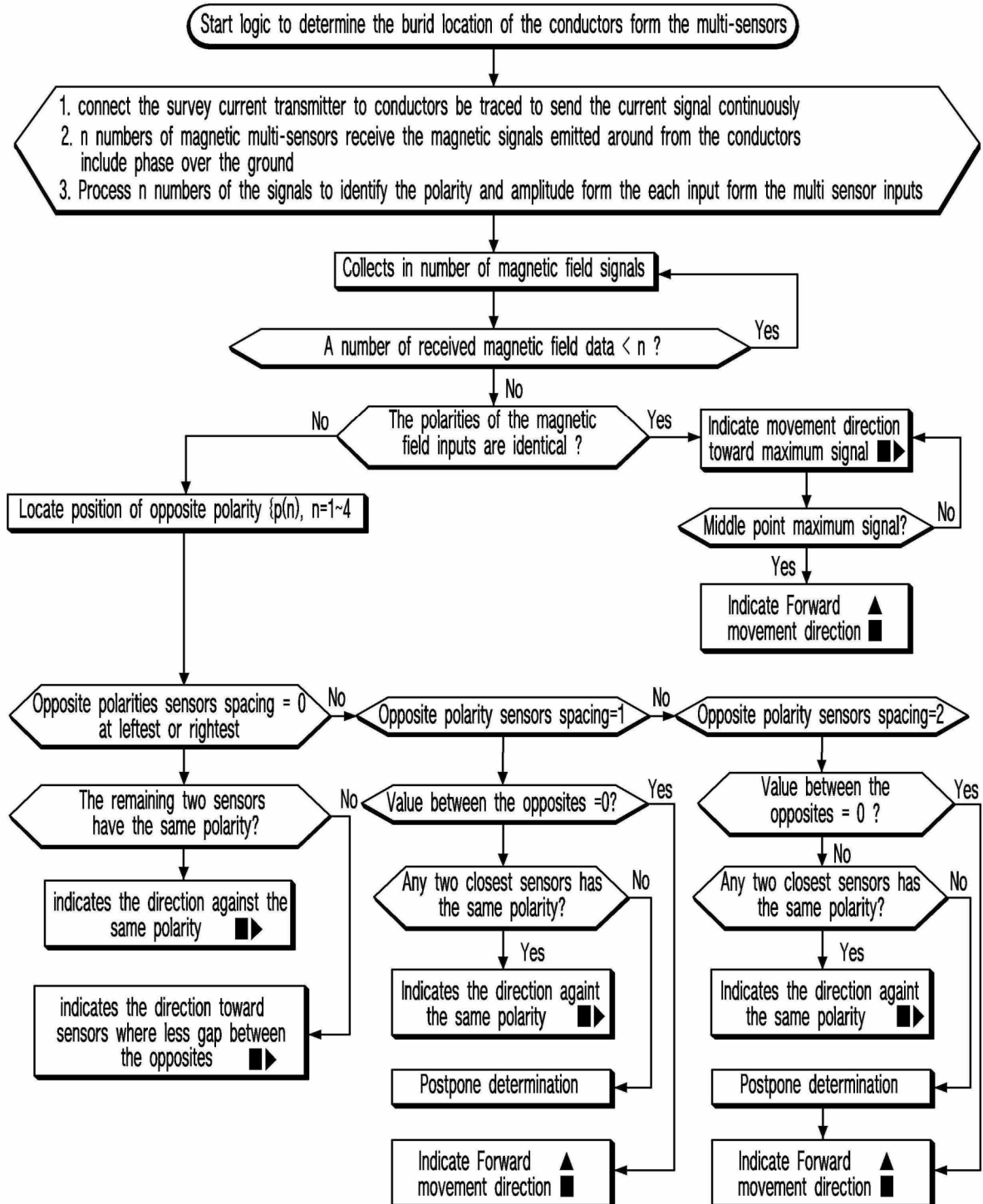


FIG. 20

If survey current flows phase and neutral conductor at the same time in opposite direction (+ and -), Electromagnetic signal cancelled (null) between the opposite polarities

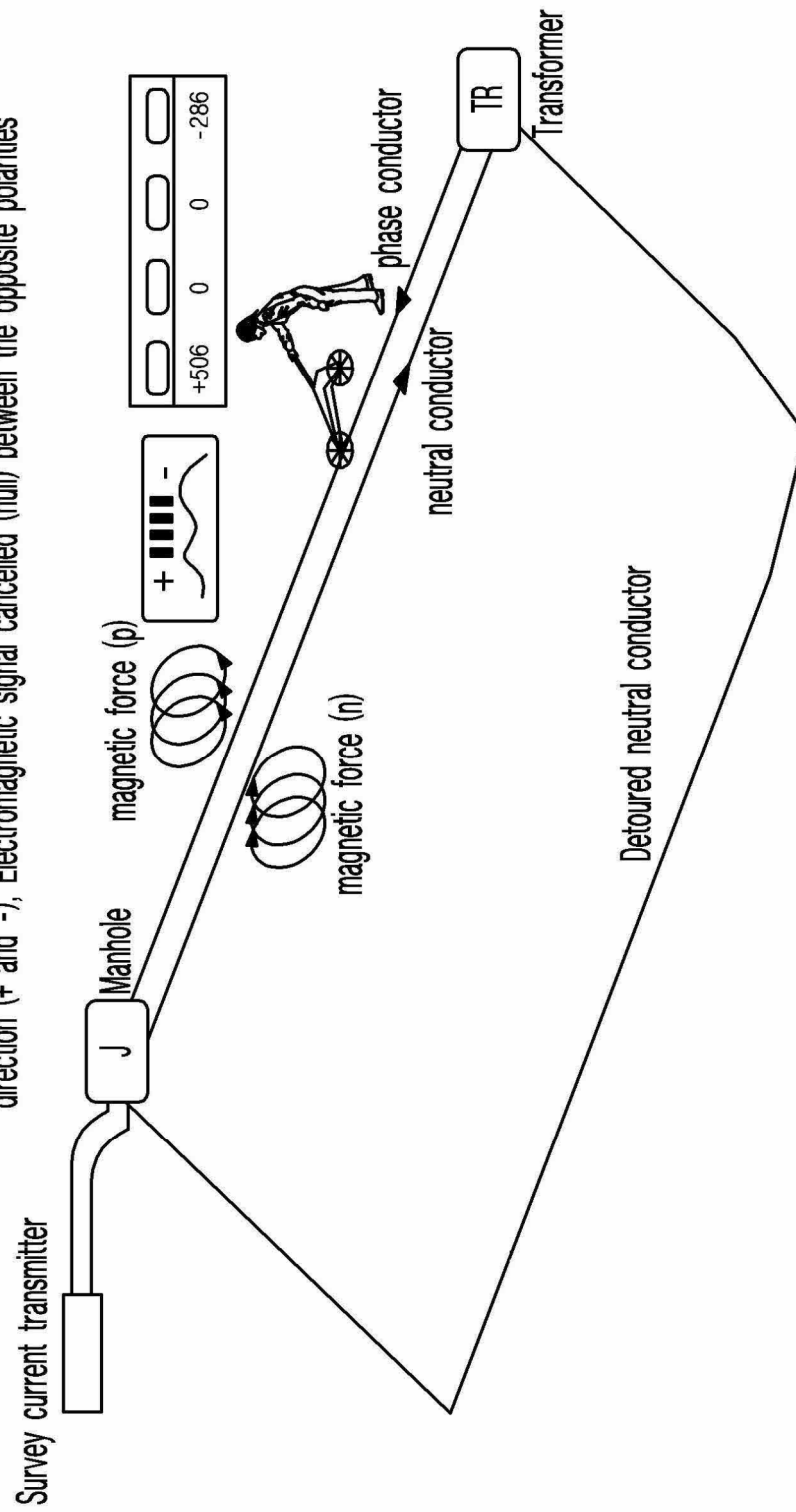


FIG. 21

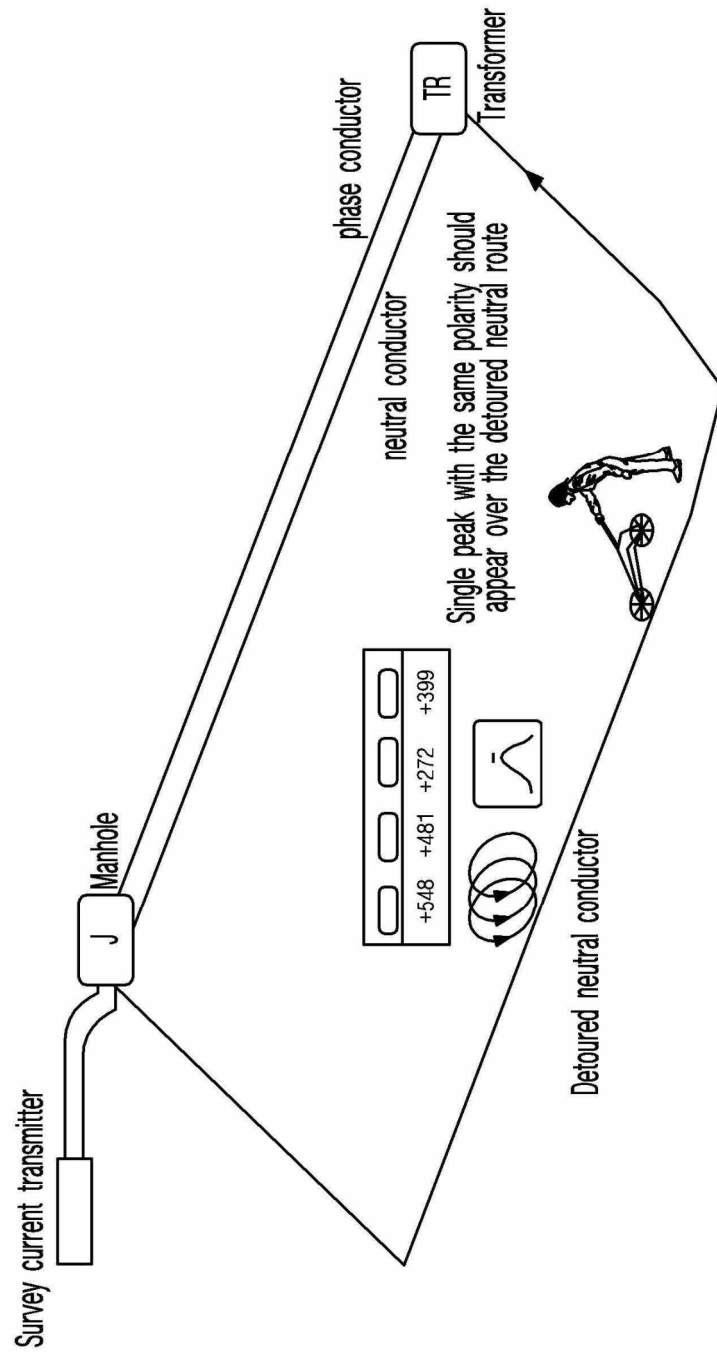


FIG. 22

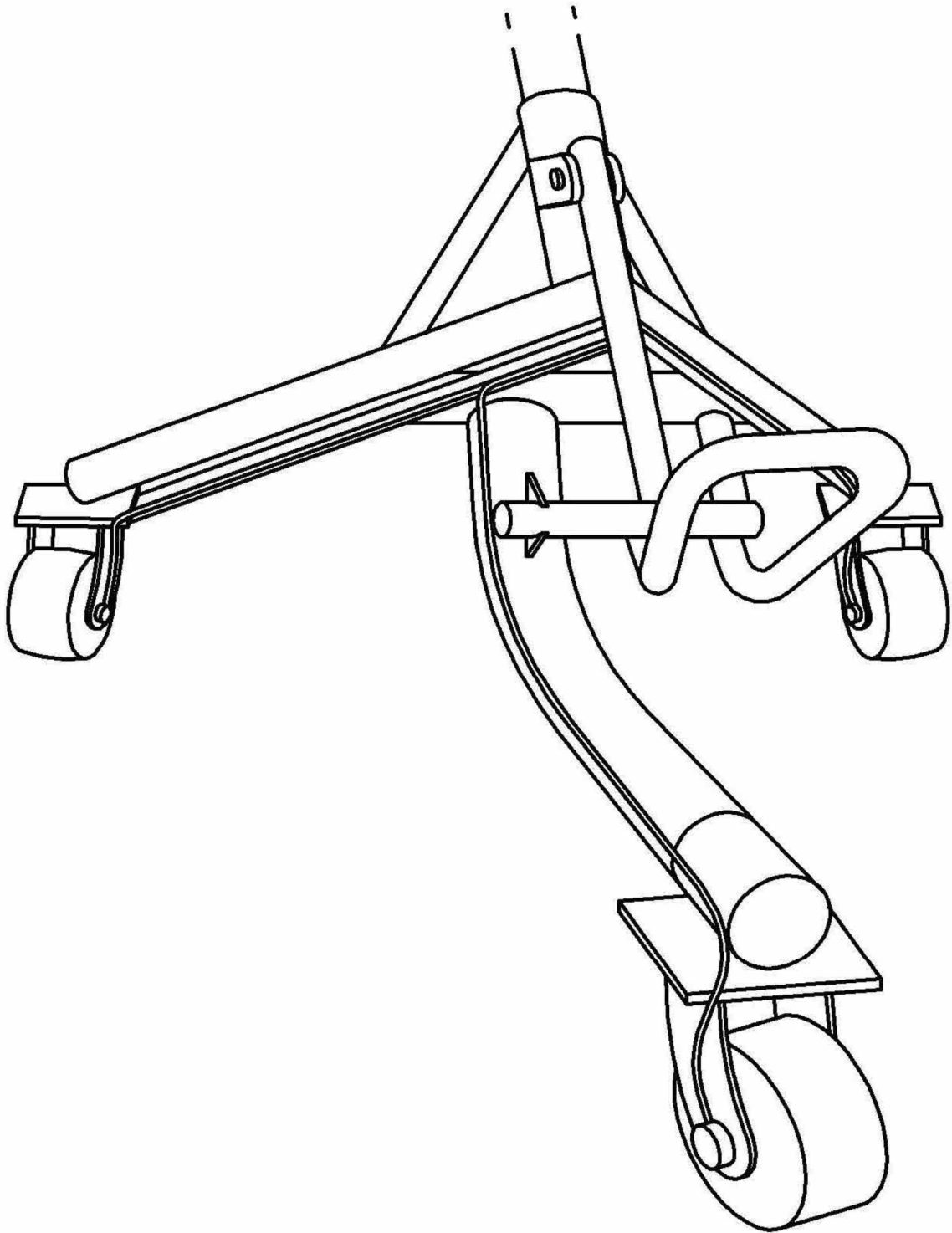


FIG. 23

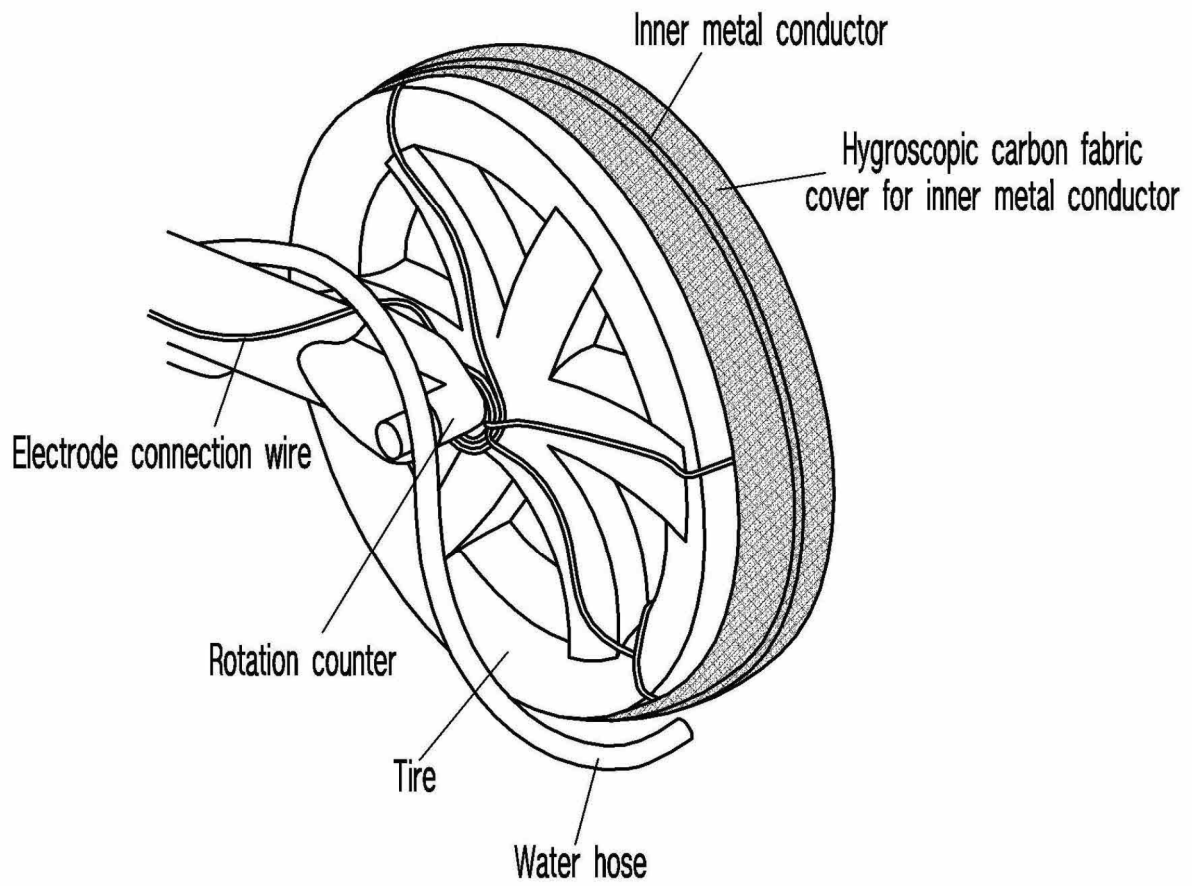


FIG. 24

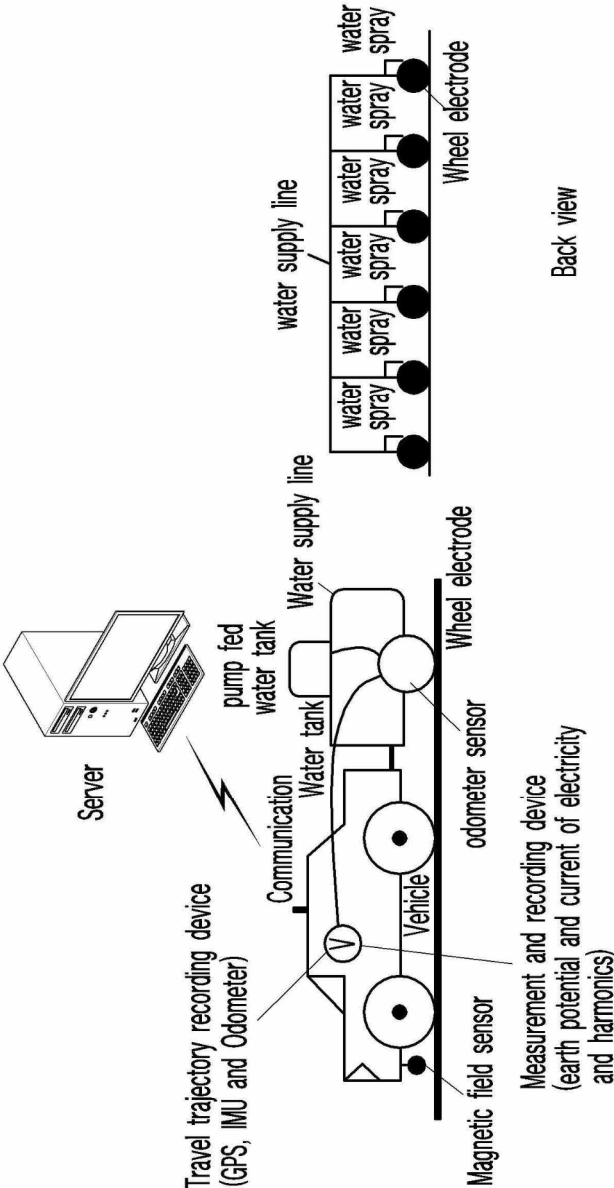


FIG. 25

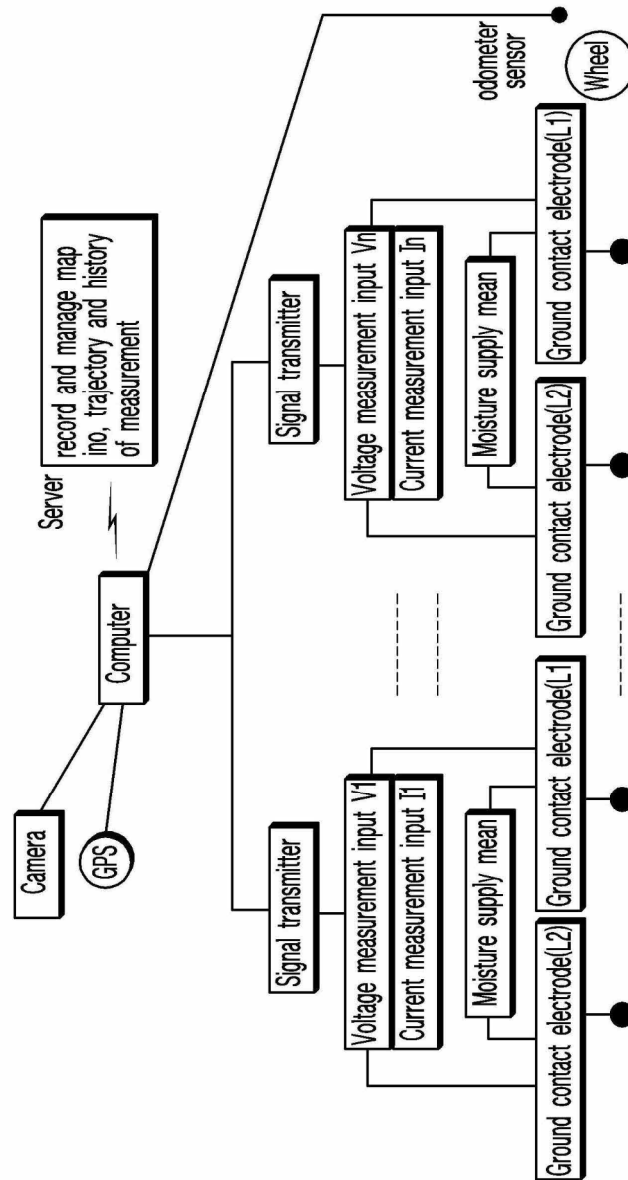


FIG. 26

Date	Electrode 1V	Electrode 1A	Electrode 2V	Electrode 2A	Electrode 3V	Electrode 3A	Electrode 4V	Electrode 4A	Trajectory information	Temperature	Humidity	Moisture	Wind
2000-06-14 PM 8:32:11	49	34	17	36	13	10	8	19	1678	26	54	0	2
2000-06-14 PM 8:32:11	29	24	47	38	14	25	17	19	1678	26	54	0	2
2000-06-14 PM 8:32:11	15	28	25	37	12	34	12	21	1678	26	54	0	2
2000-06-14 PM 8:32:11	4	13	20	38	16	10	11	18	1678	26	54	0	2
2000-06-14 PM 8:32:11	18	16	30	36	22	5	12	19	1678	26	54	0	2
2000-06-14 PM 8:32:11	27	11	15	34	21	7	7	17	1678	26	54	0	2
2000-06-14 PM 8:32:11	26	22	31	37	16	14	13	17	1678	26	54	0	2
2000-06-14 PM 8:32:11	16	22	54	39	6	18	10	18	1678	26	54	0	2
2000-06-14 PM 8:32:11	15	27	38	35	4	10	21	20	1678	26	54	0	2
2000-06-14 PM 8:32:11	22	18	27	35	9	15	6	18	1678	26	54	0	2
2000-06-14 PM 8:32:11	20	9	17	34	14	26	5	20	1678	26	54	0	2
2000-06-14 PM 8:32:11	14	17	7	40	20	11	17	18	1678	26	54	0	2
2000-06-14 PM 8:32:11	6	18	39	38	14	14	14	17	1678	26	54	0	2
2000-06-14 PM 8:32:11	5	18	72	42	5	6	16	18	1678	26	54	0	2
2000-06-14 PM 8:32:11	9	27	46	34	6	10	10	18	1678	26	54	0	2
2000-06-14 PM 8:32:11	18	33	15	37	3	12	5	16	1678	26	54	0	2
2000-06-14 PM 8:32:11	16	32	9	37	11	7	7	18	1678	26	54	0	2
2000-06-14 PM 8:32:11	20	44	19	36	14	14	20	17	1679	26	54	0	2
2000-06-14 PM 8:32:12	27	36	28	42	6	11	18	18	1679	26	54	0	2
2000-06-14 PM 8:32:12	17	26	26	39	5	21	14	19	1679	26	54	0	2
2000-06-14 PM 8:32:12	18	6	29	33	8	20	10	18	1679	26	54	0	2
2000-06-14 PM 8:32:12	37	19	19	36	4	16	11	19	1679	26	54	0	2
2000-06-14 PM 8:32:12	42	17	23	37	4	9	7	18	1679	26	54	0	2
2000-06-14 PM 8:32:12	36	18	10	35	7	5	9	18	1679	26	54	0	2

FIG. 27

Trajectory information	Longitude	Latitude	Validity	Speed
1	127.19596	37.55364	☒	0
2	127.19597	37.55364	☒	1
3	127.19597	37.55365	☒	1
4	127.19597	37.55364	☒	0
5	127.19597	37.55365	☒	5
6	127.19598	37.55366	☒	8
7	127.19599	37.55369	☒	13
8	127.19601	37.55373	☒	16
9	127.19603	37.55377	☒	20
10	127.19607	37.55381	☒	23
11	127.19611	37.55386	☒	21
12	127.19615	37.55390	☒	22
13	127.19620	37.55394	☒	22
14	127.19625	37.55398	☒	21
15	127.19629	37.55402	☒	18
16	127.19632	37.55406	☒	20
17	127.19668	37.55404	☒	21
18	127.19074	37.55410	☒	21
19	127.19681	37.55411	☒	26
20	127.19701	37.55410	☒	26
21	127.19652	37.55407	☒	15
22	127.19654	37.55422	☒	18
23	127.19645	37.55425	☒	17
24	127.19649	37.55426	☒	16
25	127.19654	37.55434	☒	14
26	127.19655	37.55431	☒	16
27	127.19653	37.55430	☒	17
28	127.19654	37.55436	☒	18
29	127.19652	37.55441	☒	18
30	127.19651	37.55447	☒	19

FIG. 28

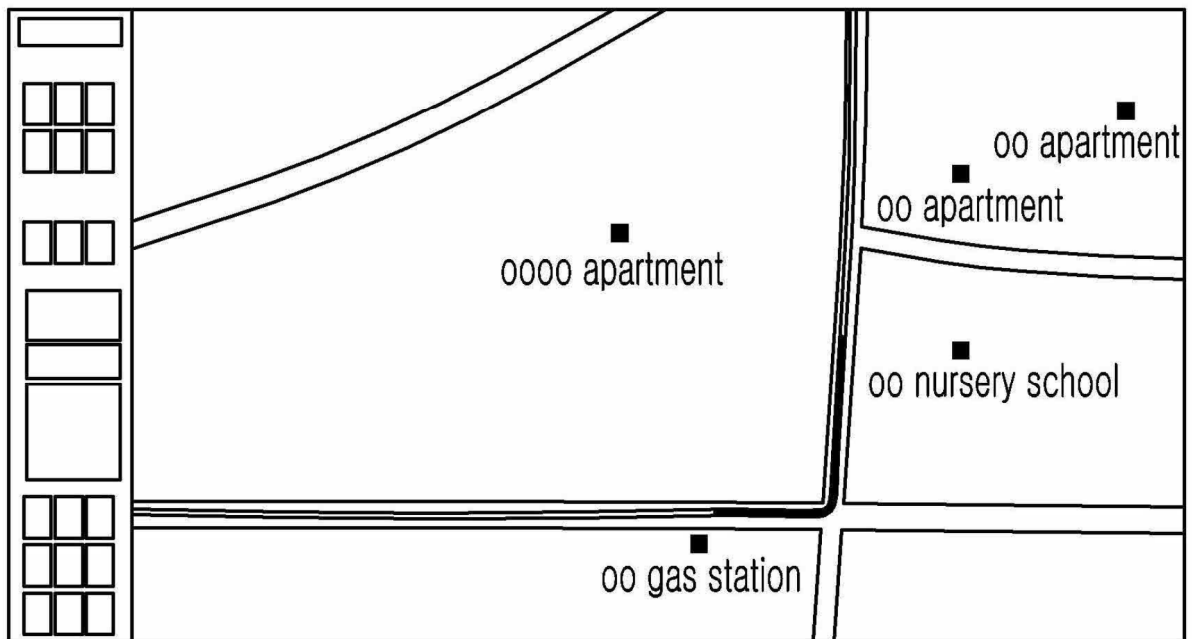


FIG. 29

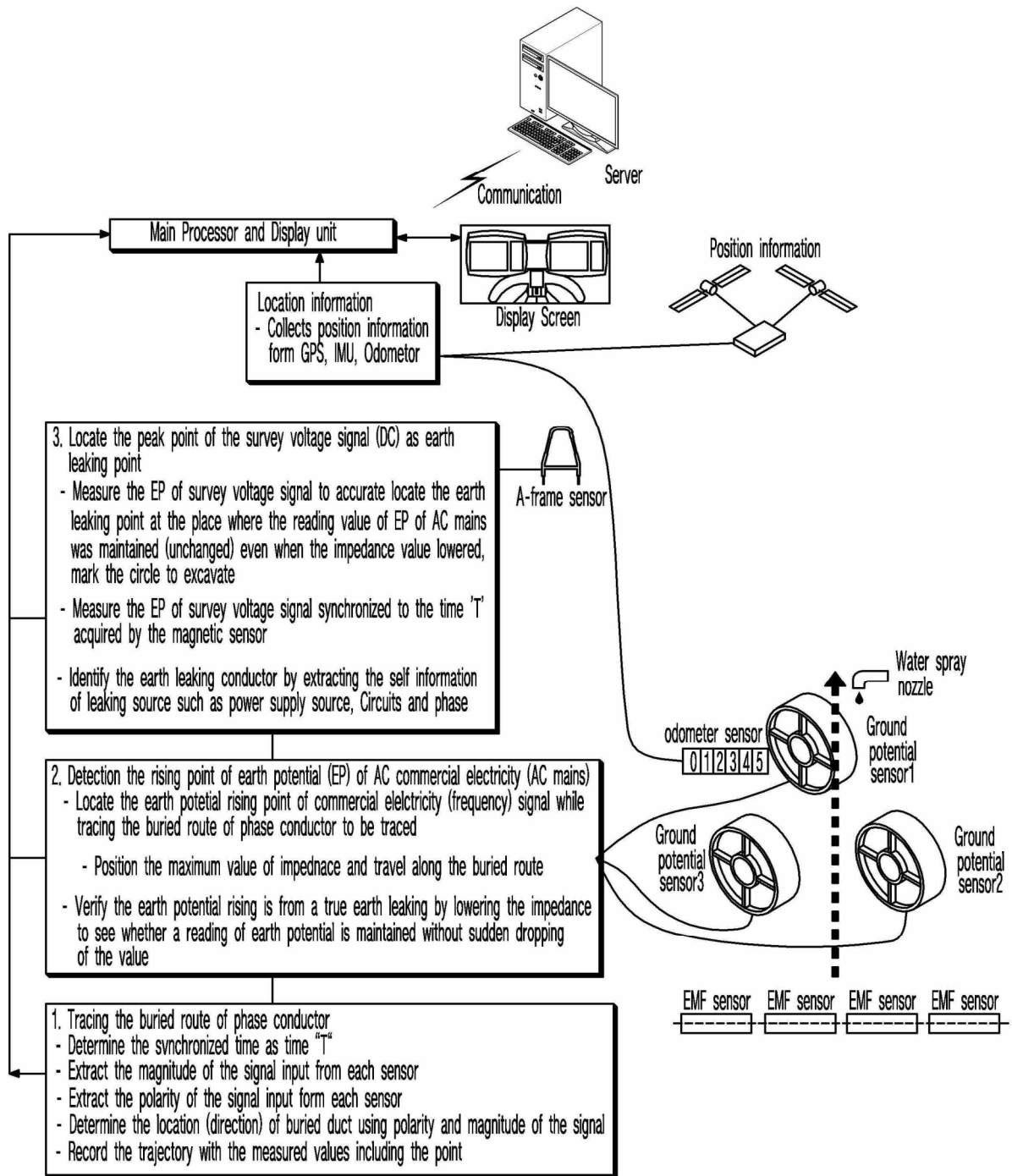


FIG. 30

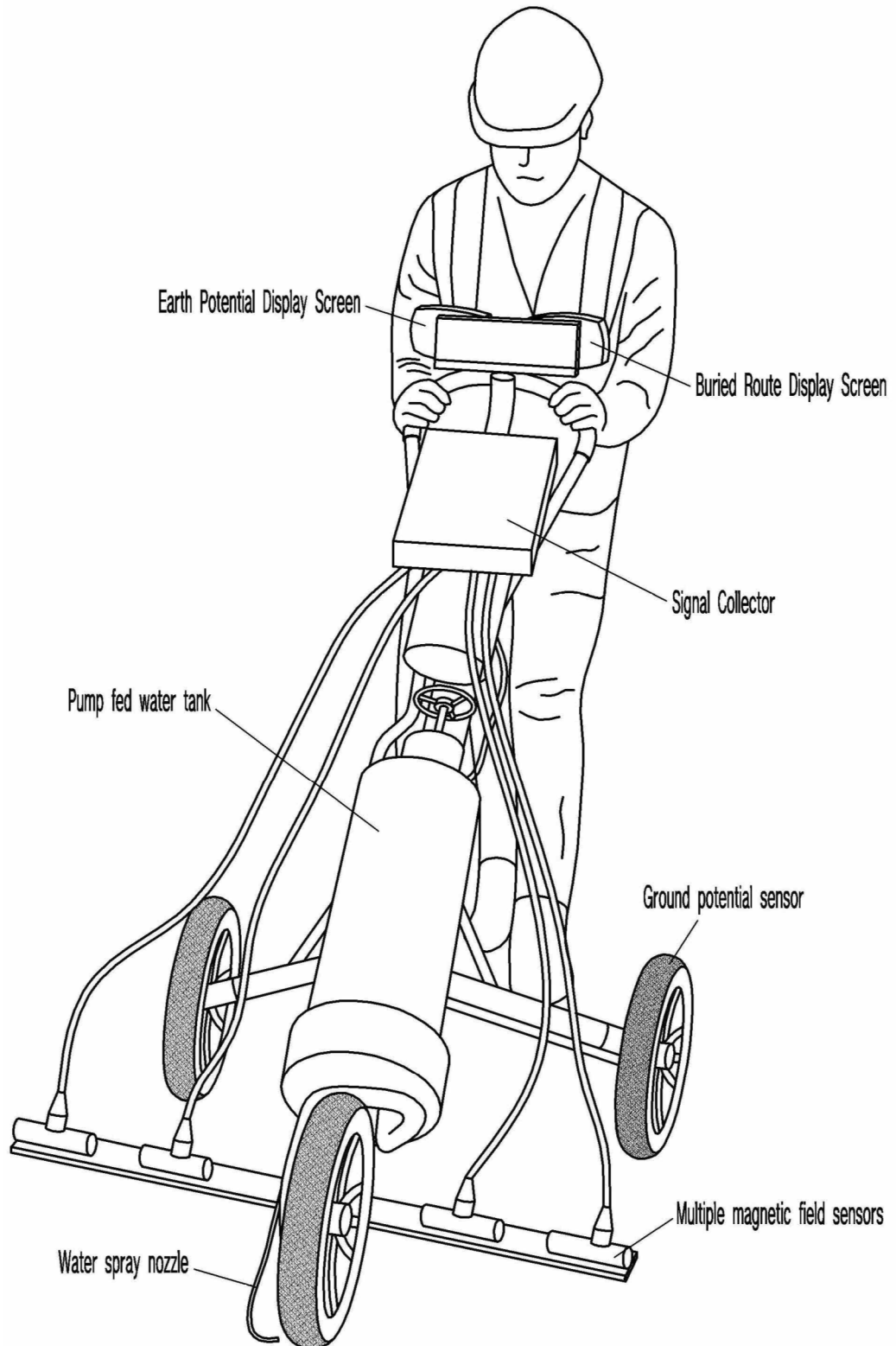


FIG. 31

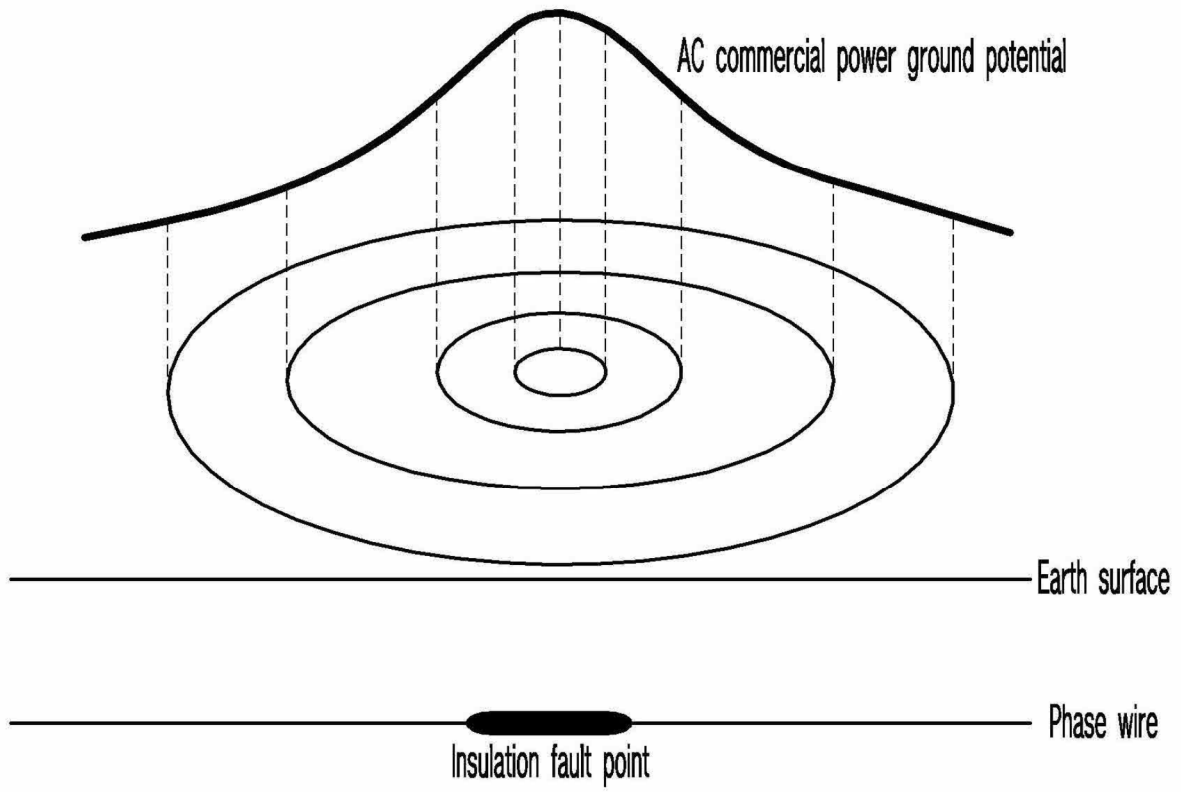


FIG. 32

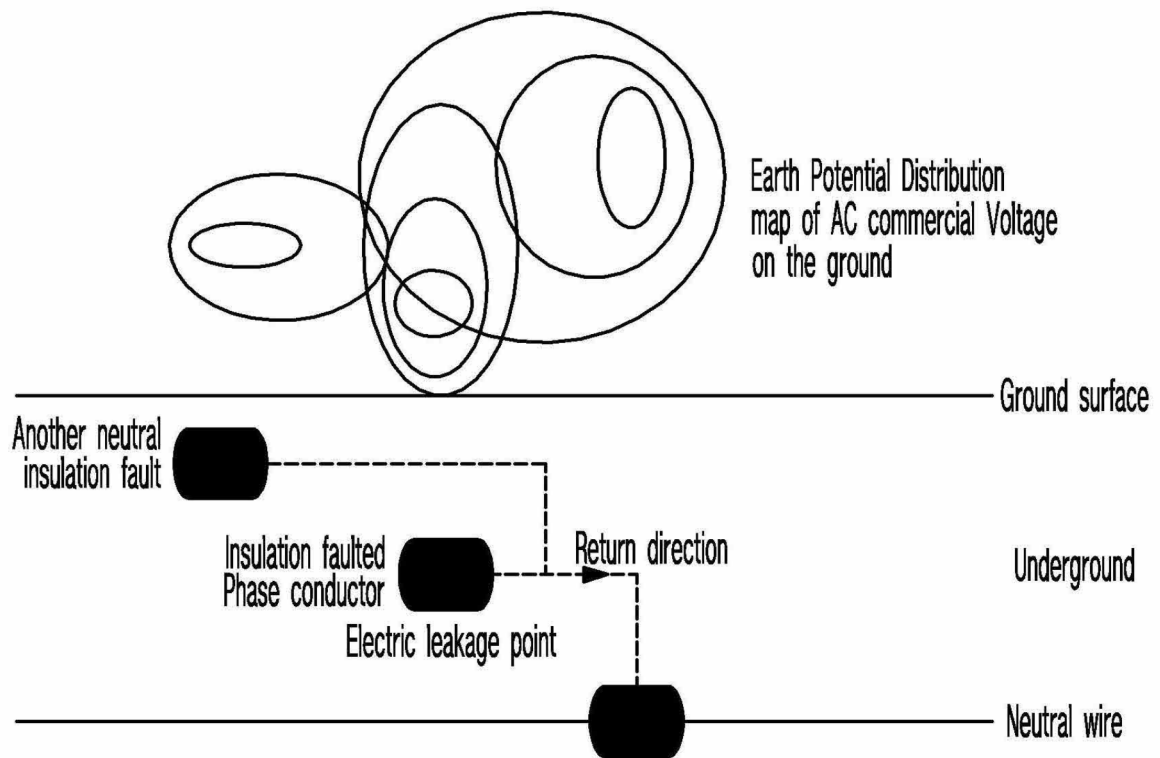


FIG. 33

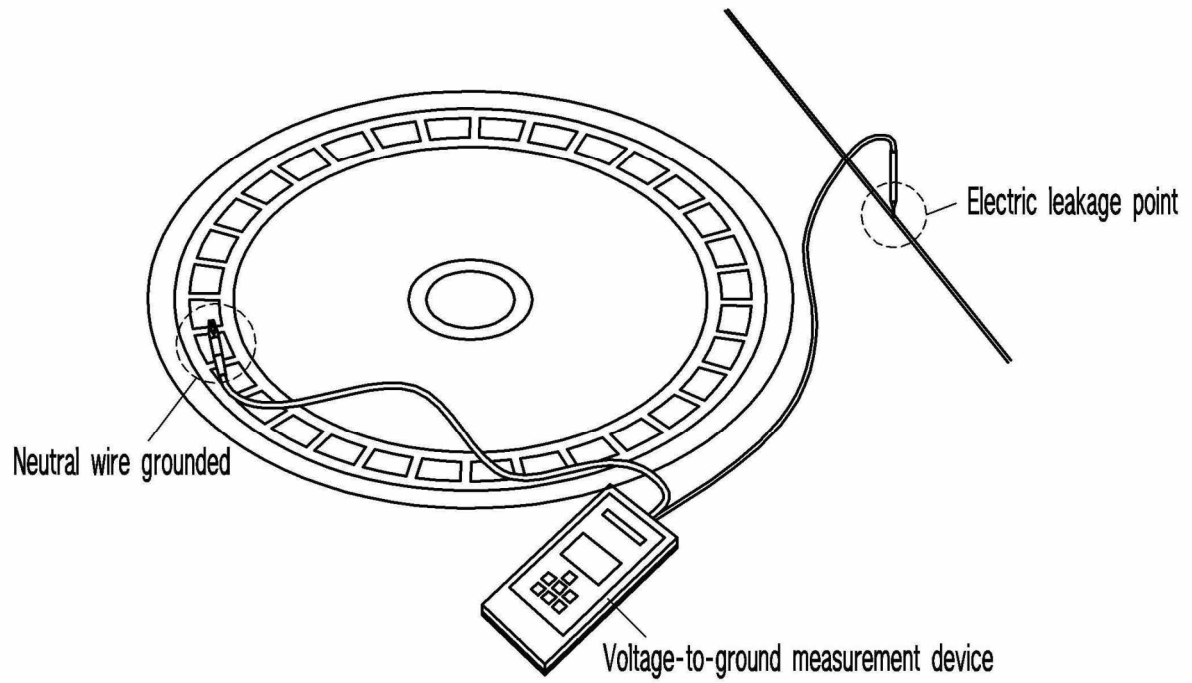


FIG. 34

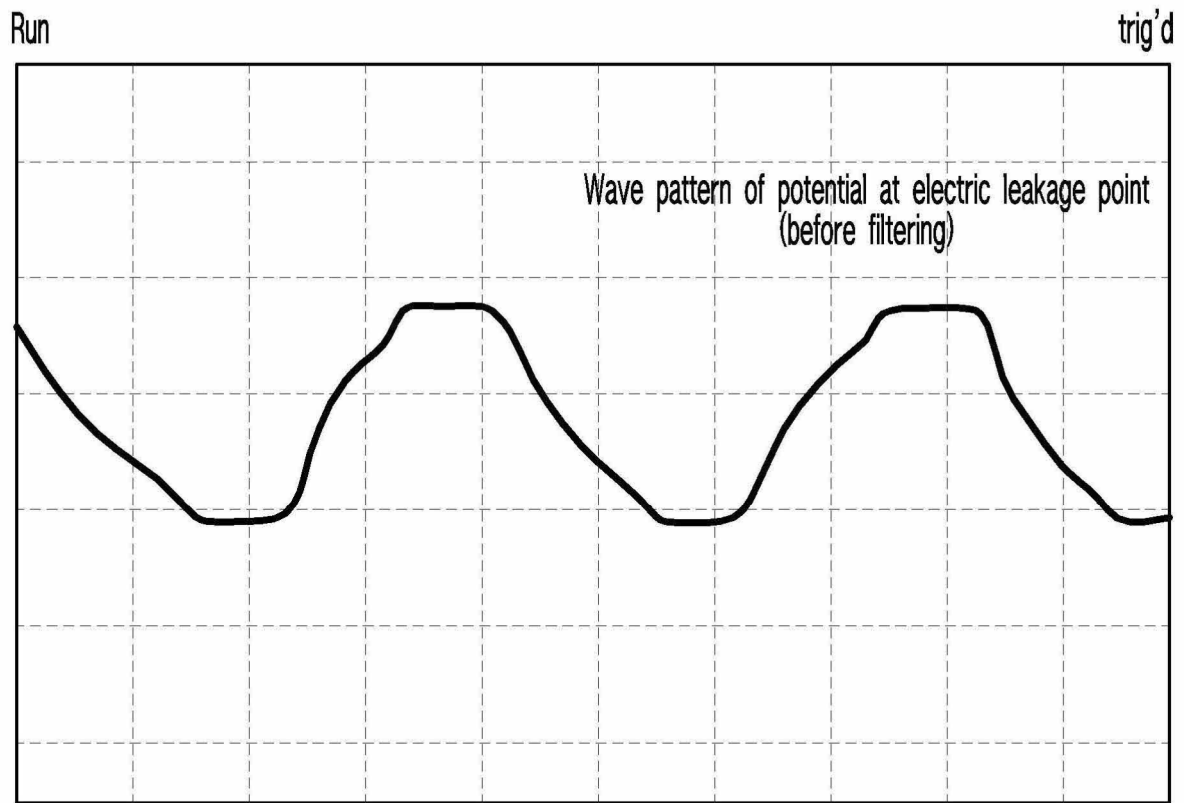


FIG. 35

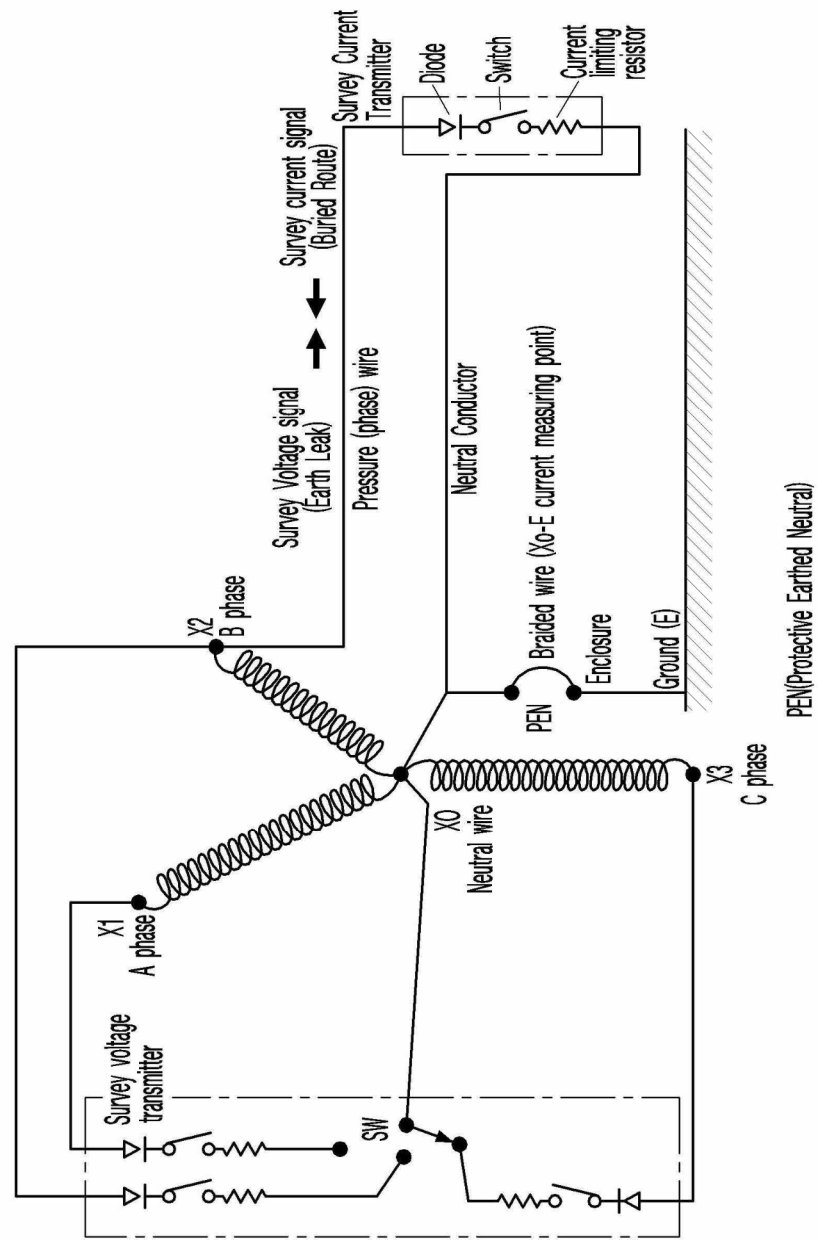


FIG. 36

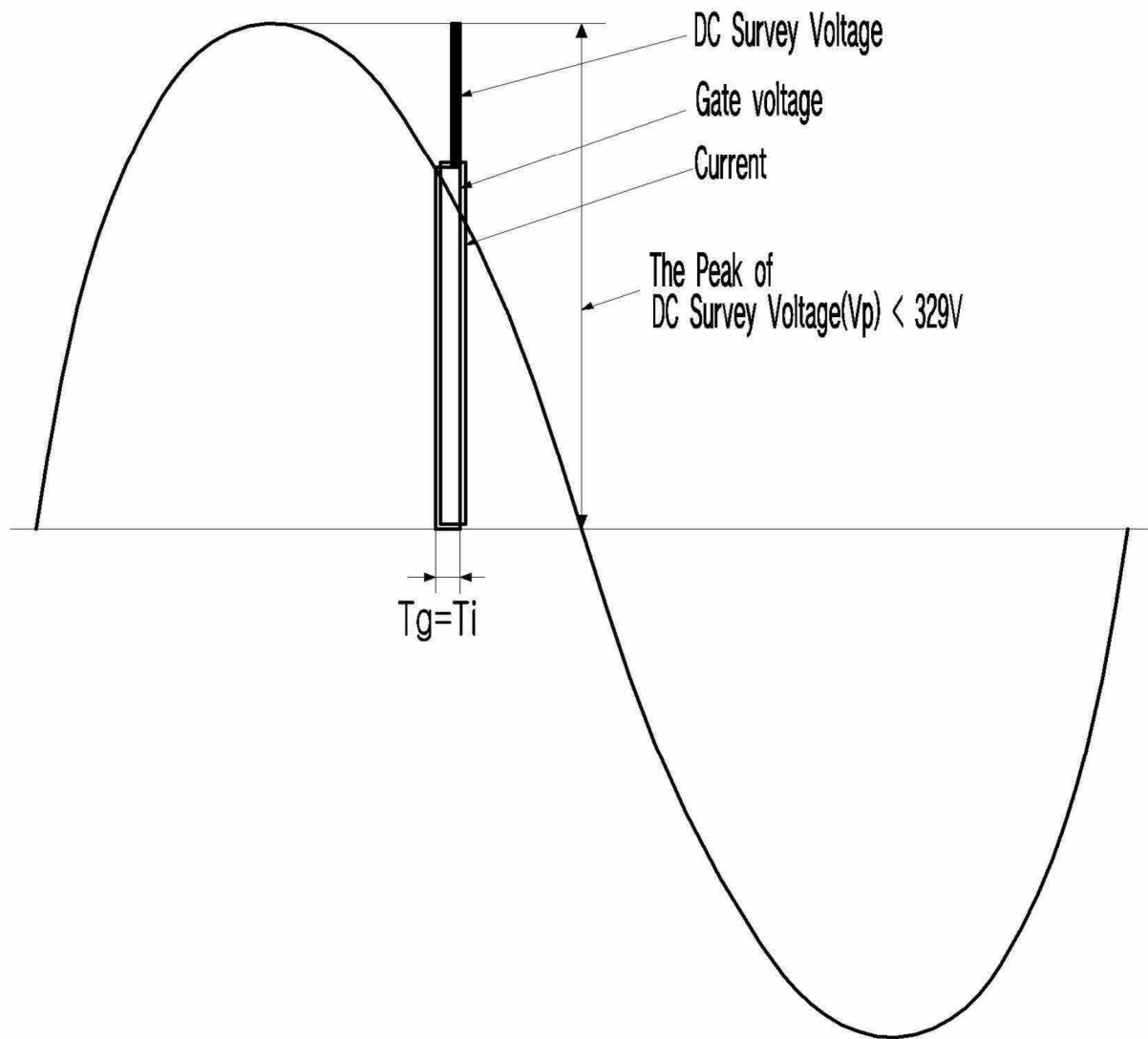


FIG. 37

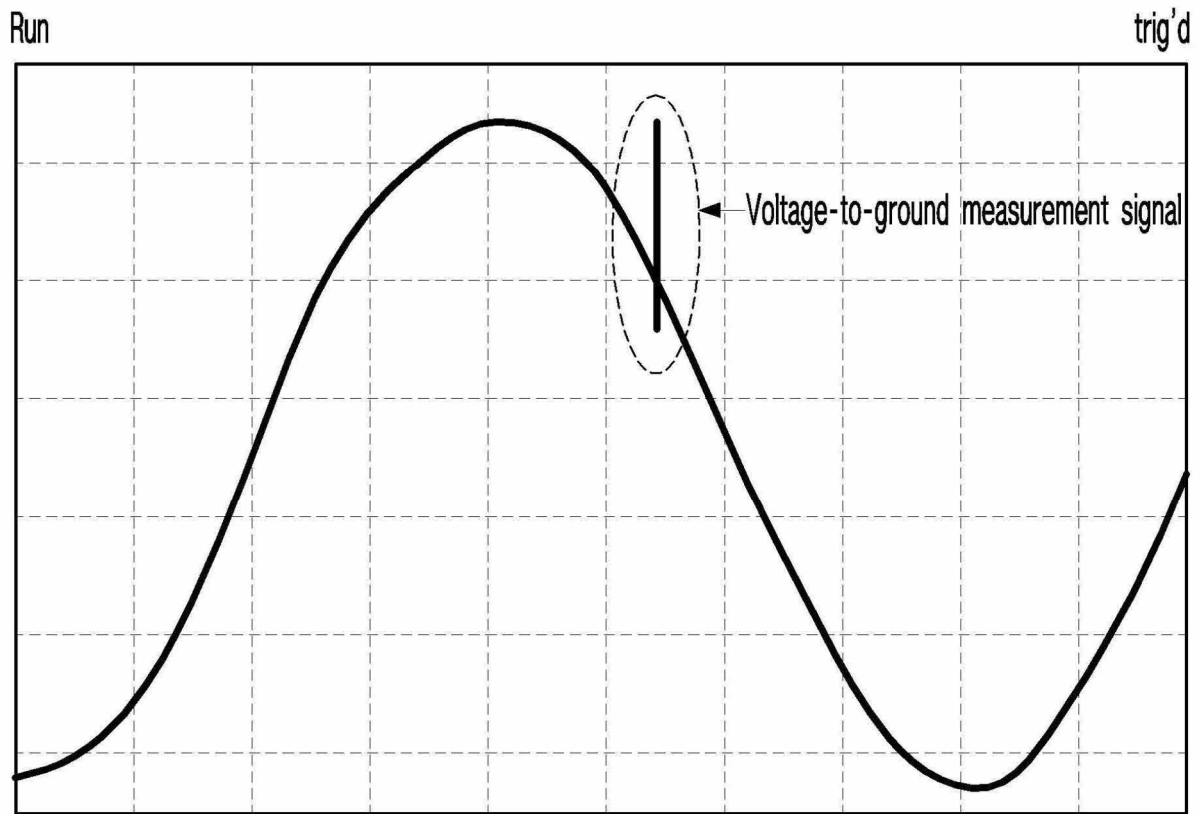


FIG. 38

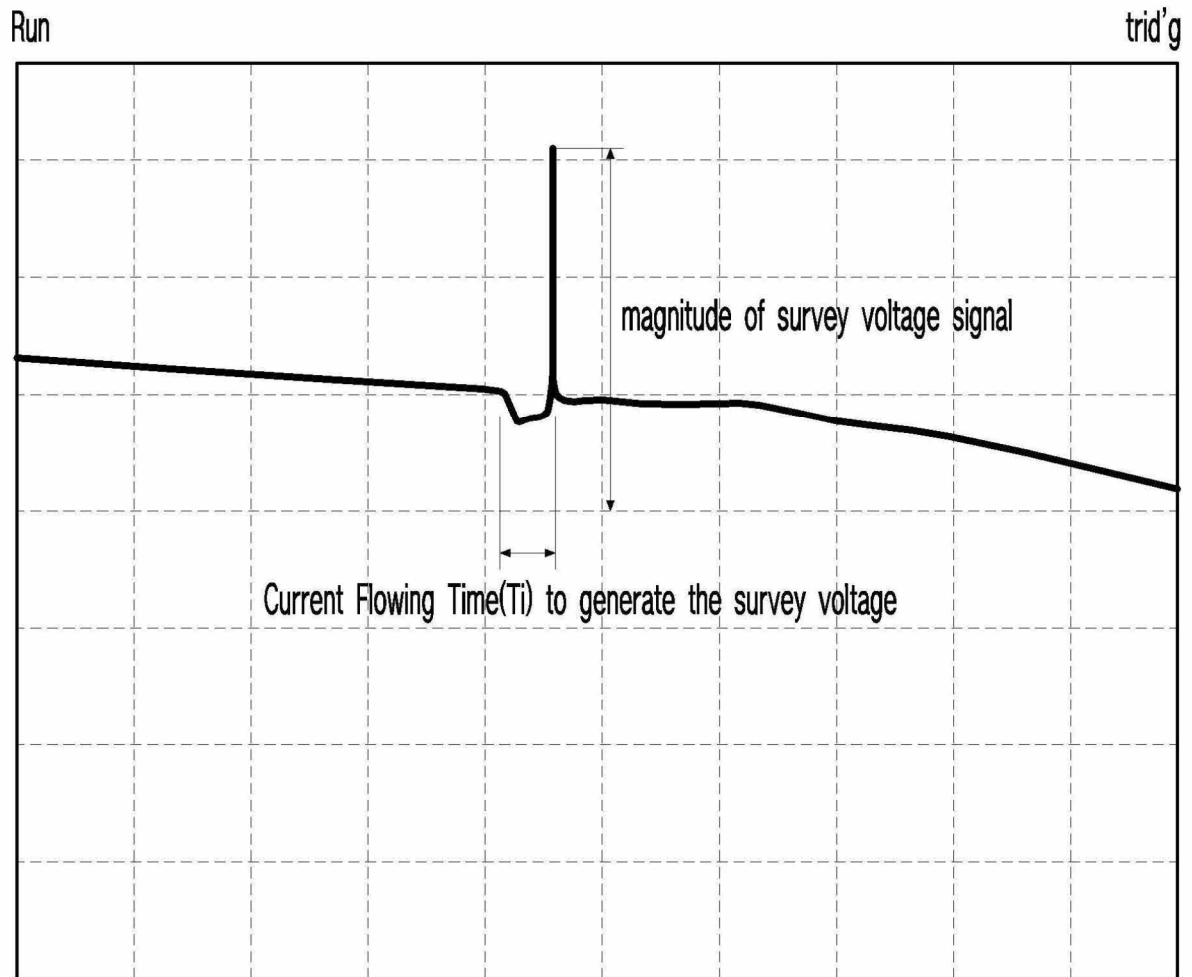


FIG. 39

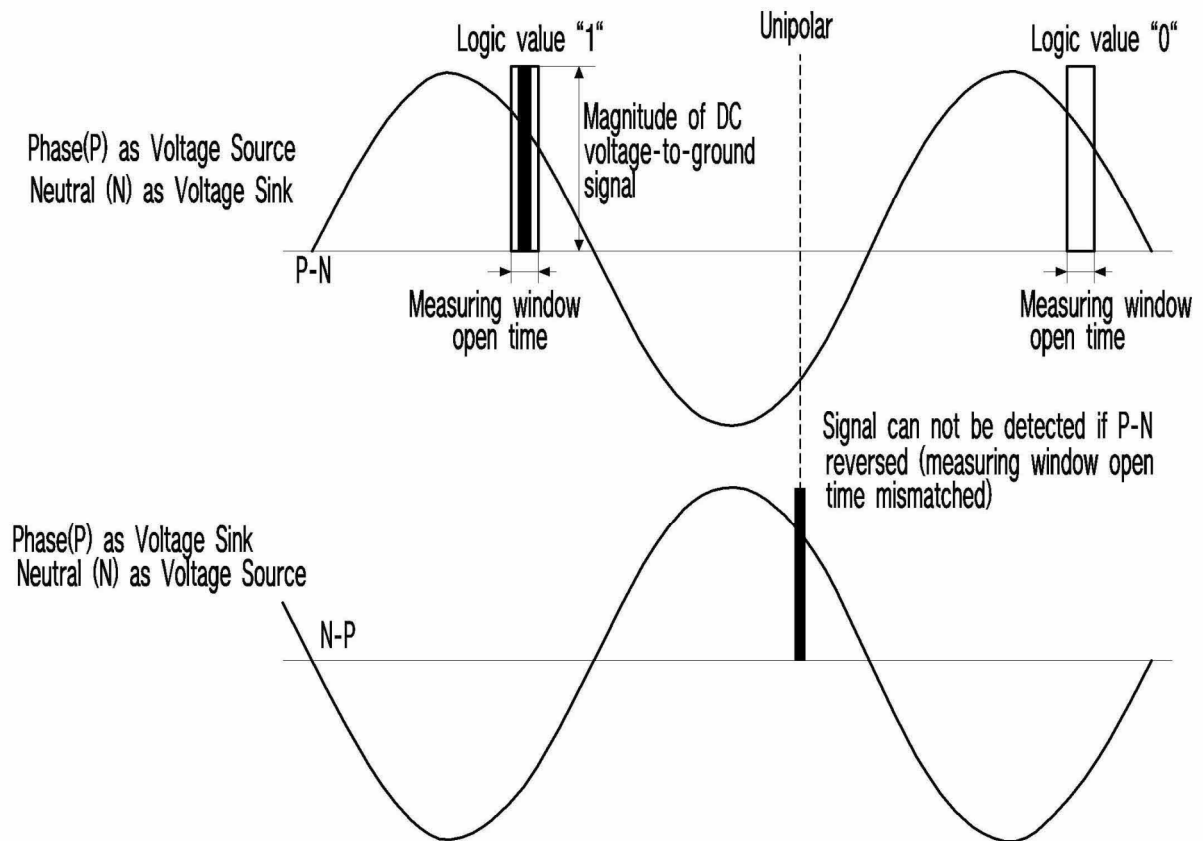


FIG. 40

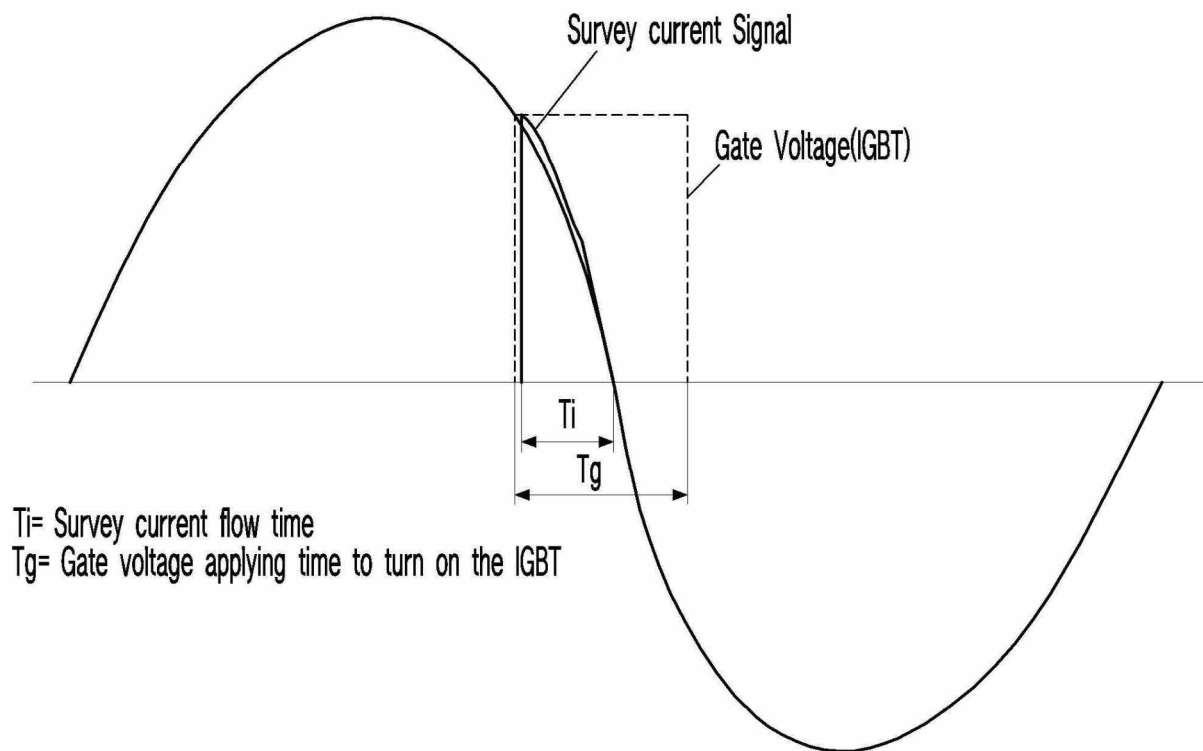


FIG. 41

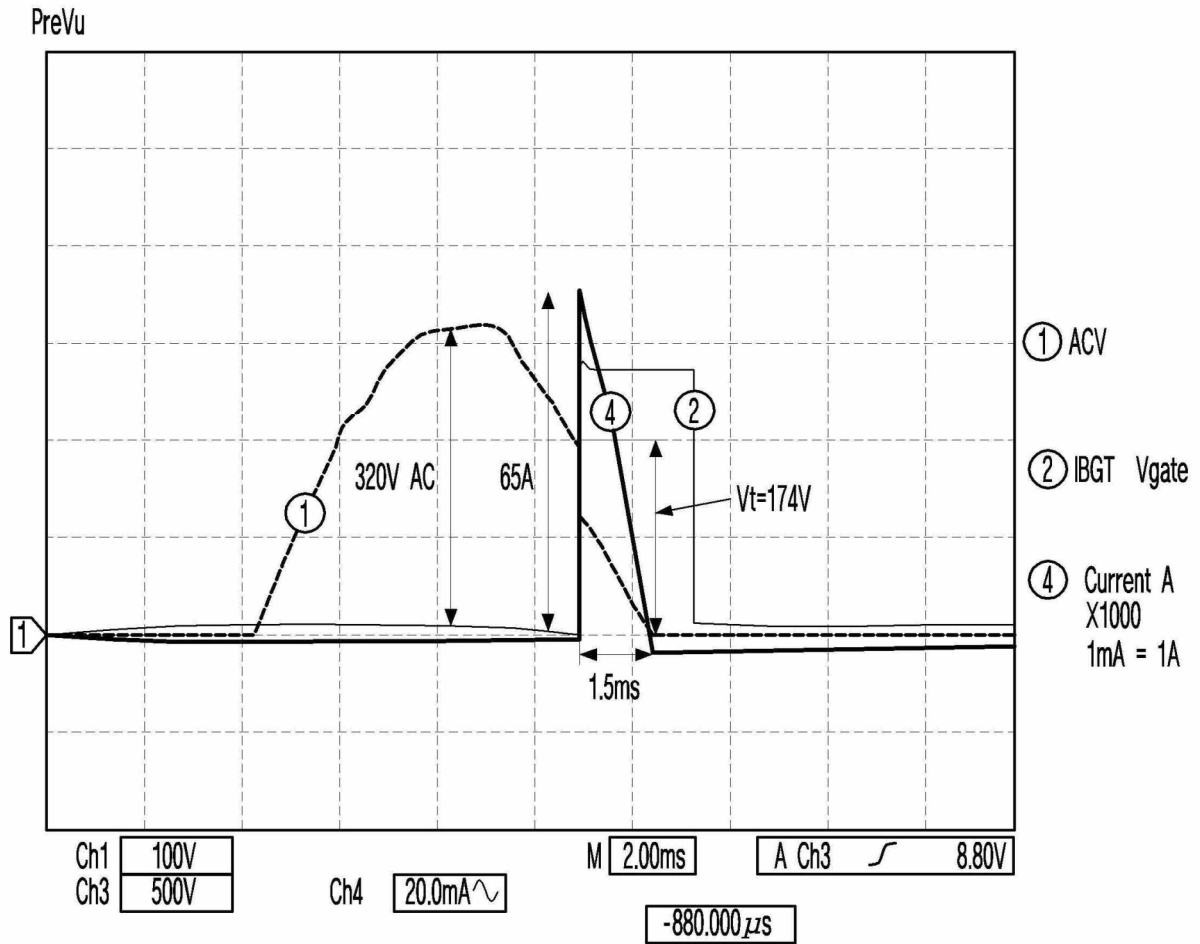


FIG. 42

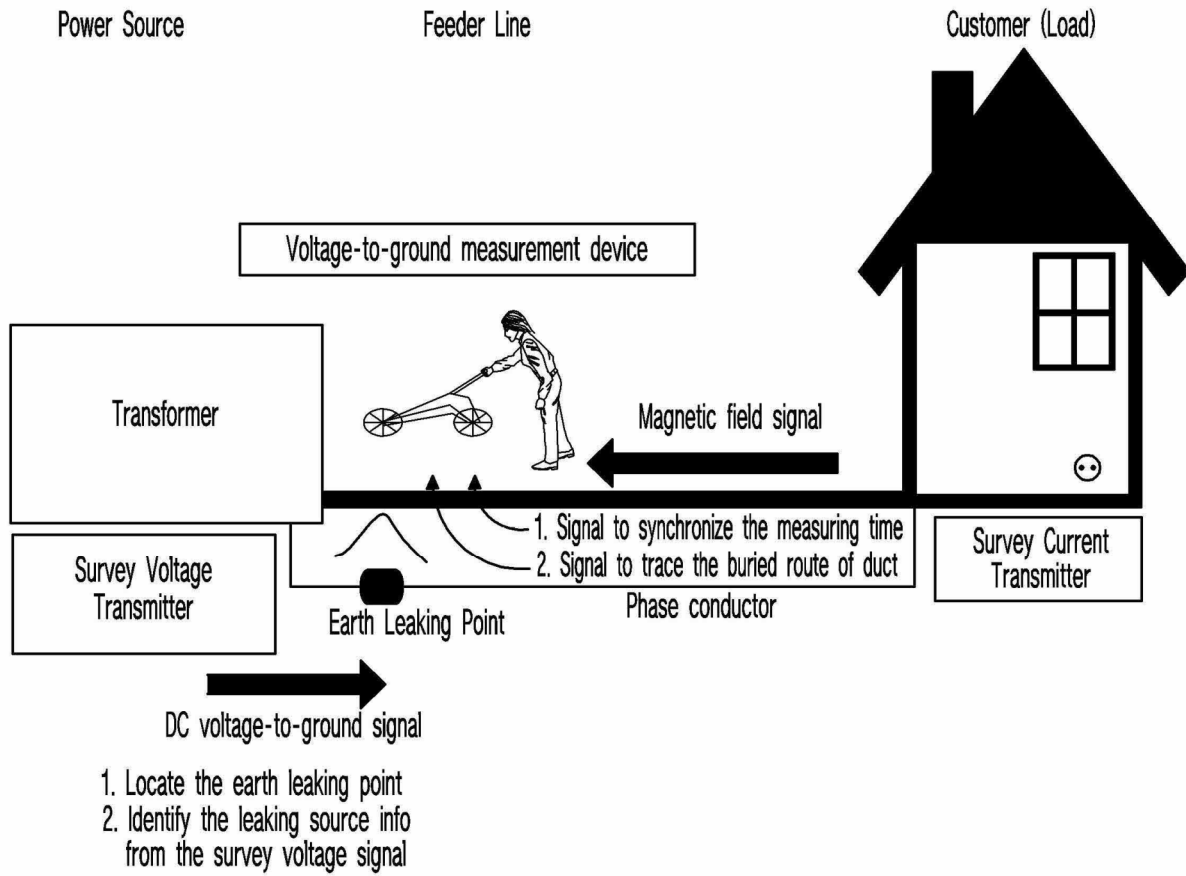


FIG. 43

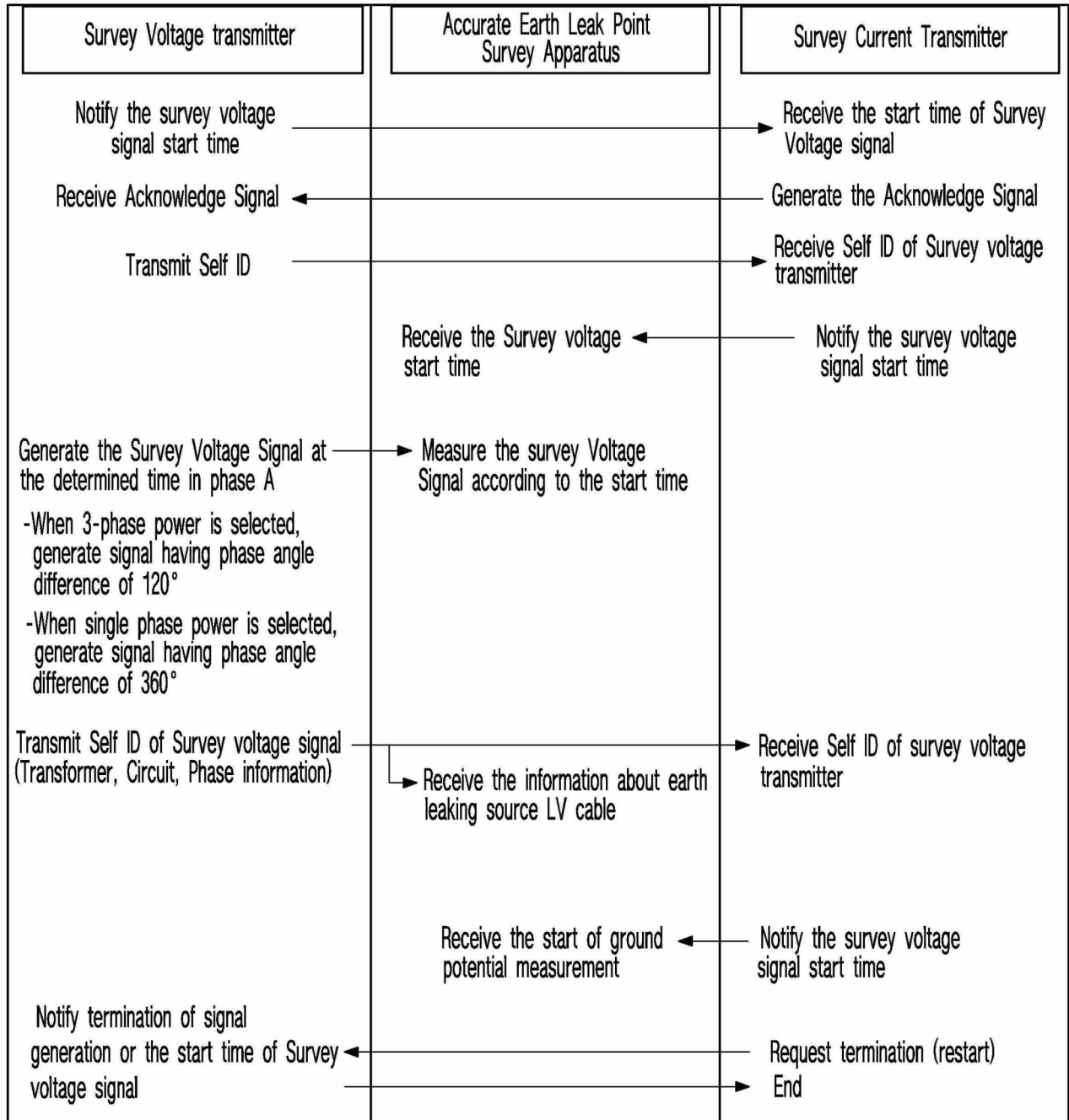


FIG. 44

Notify the start time of survey voltage signal

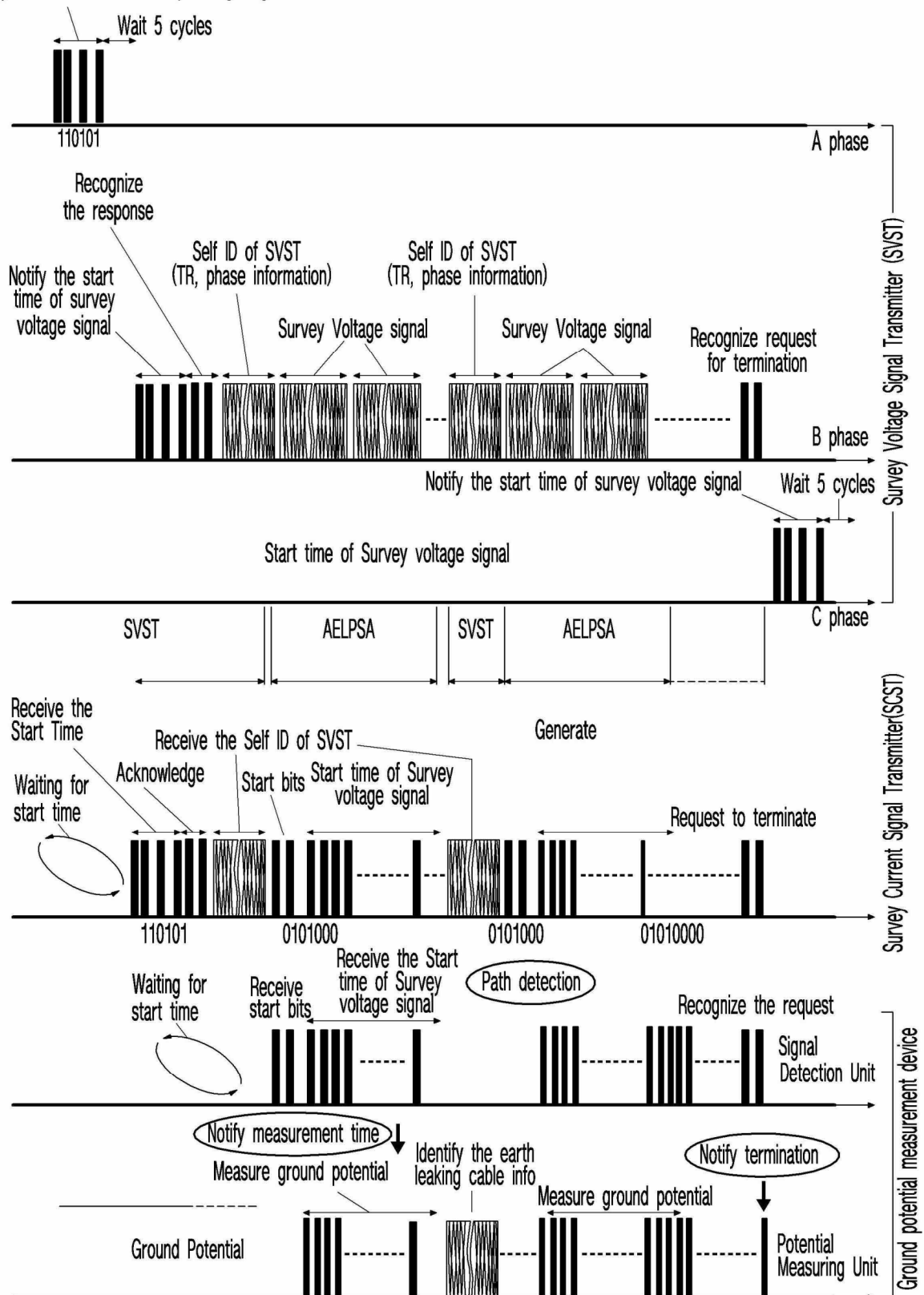


FIG. 45

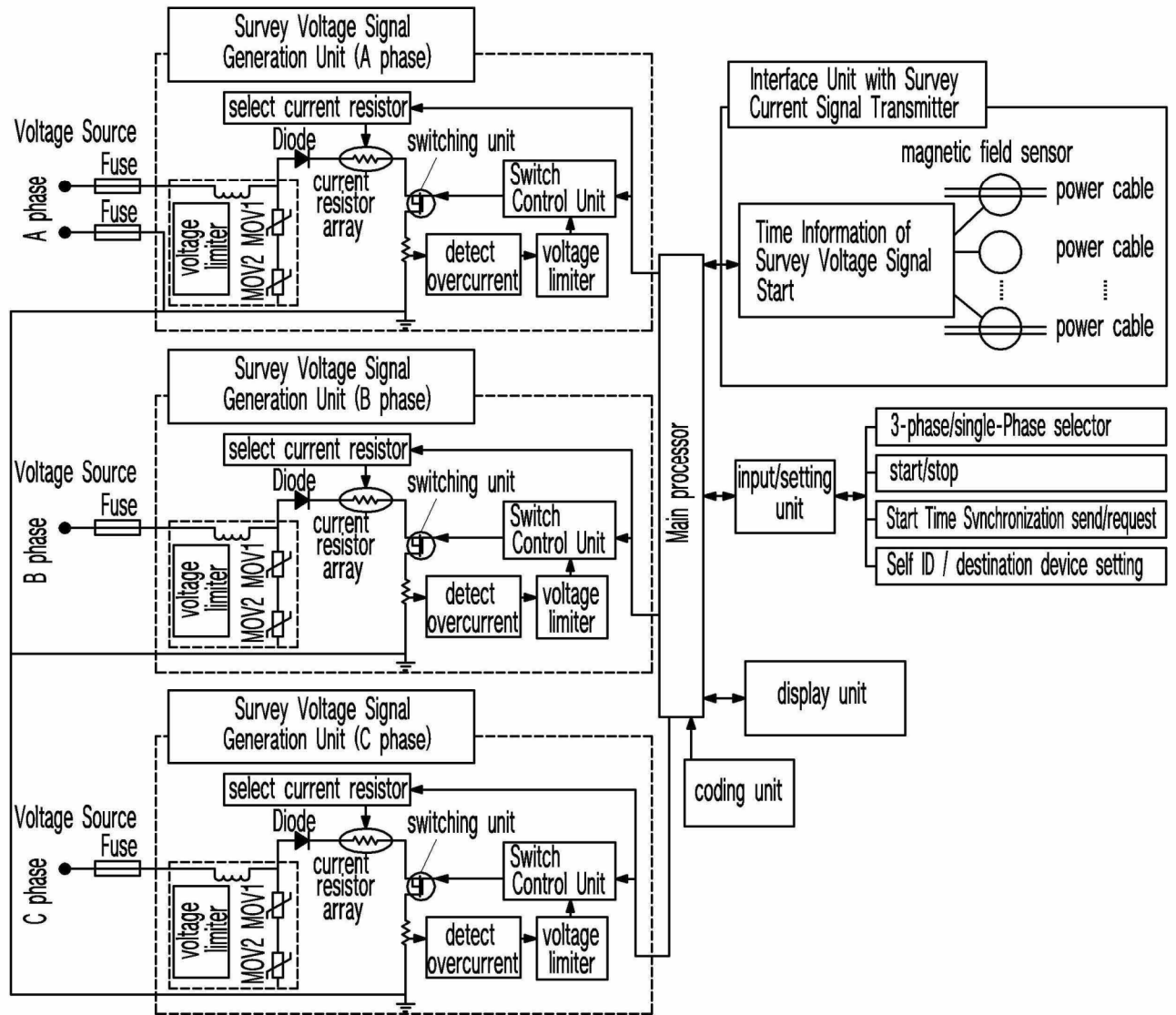


FIG. 46

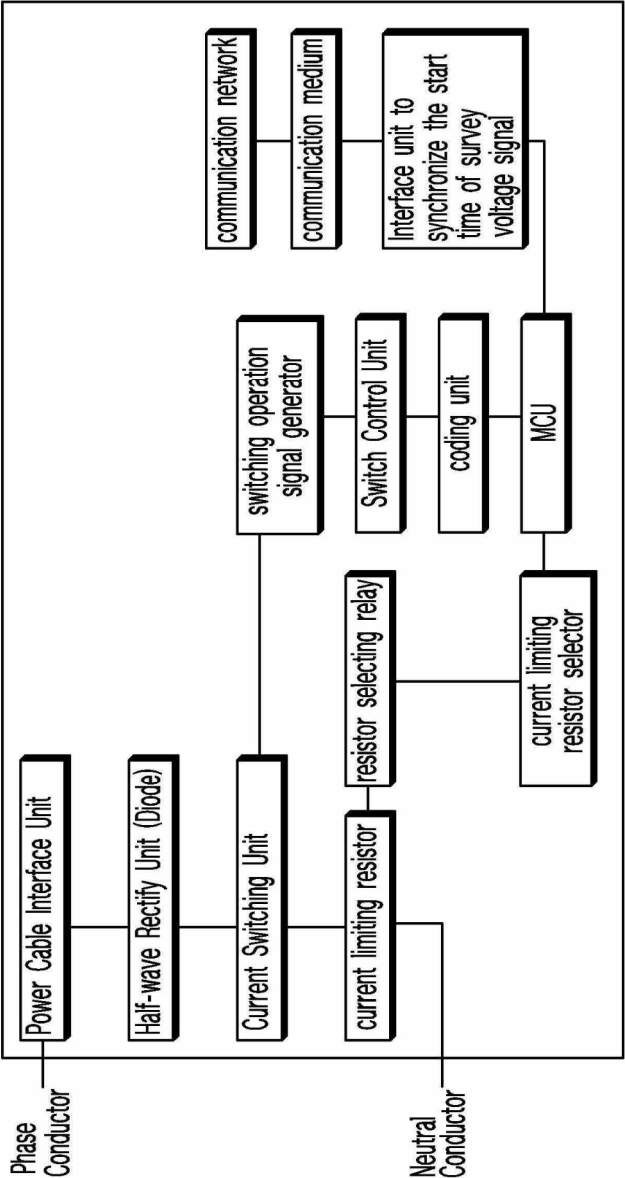


FIG. 47

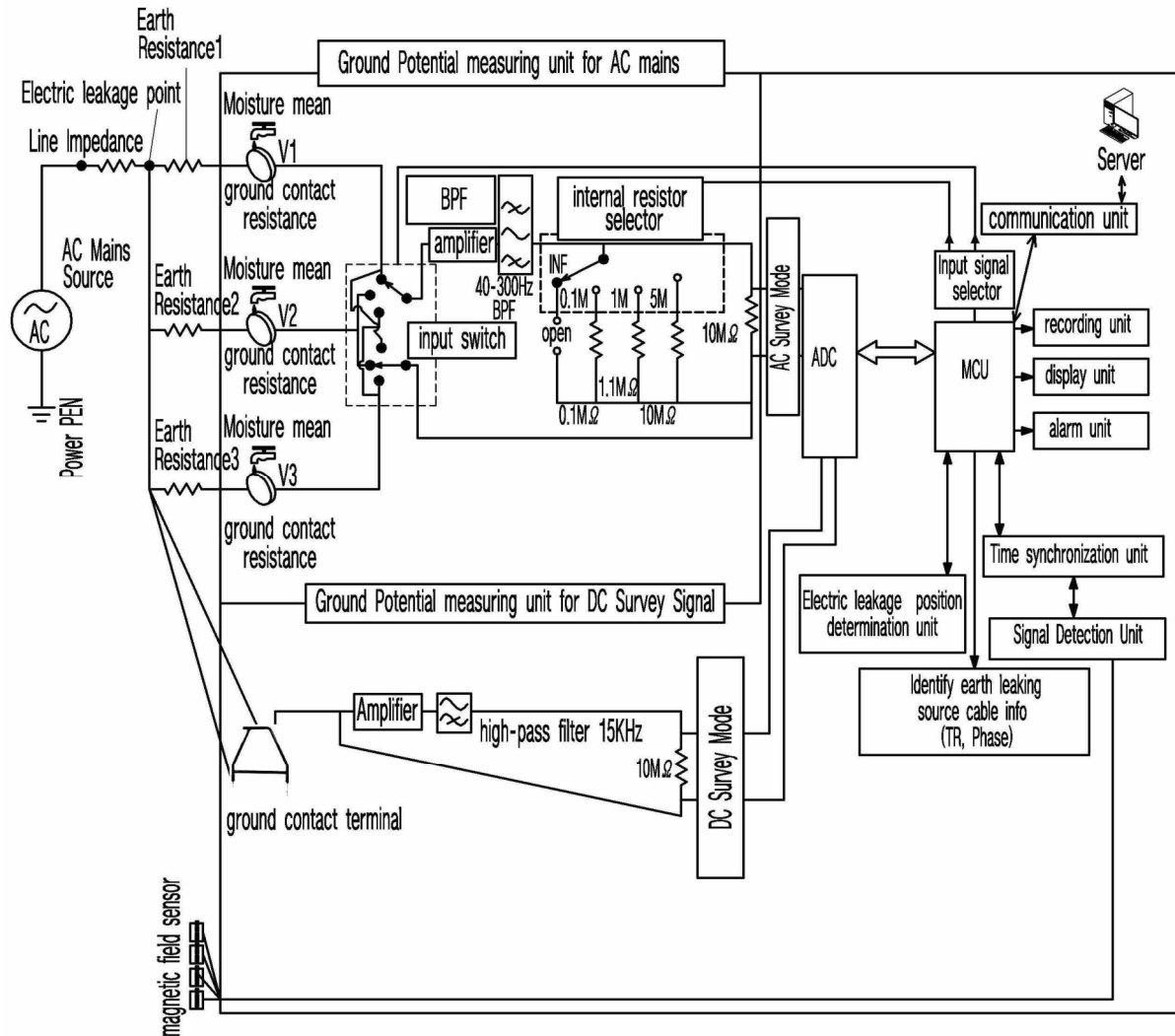


FIG. 48

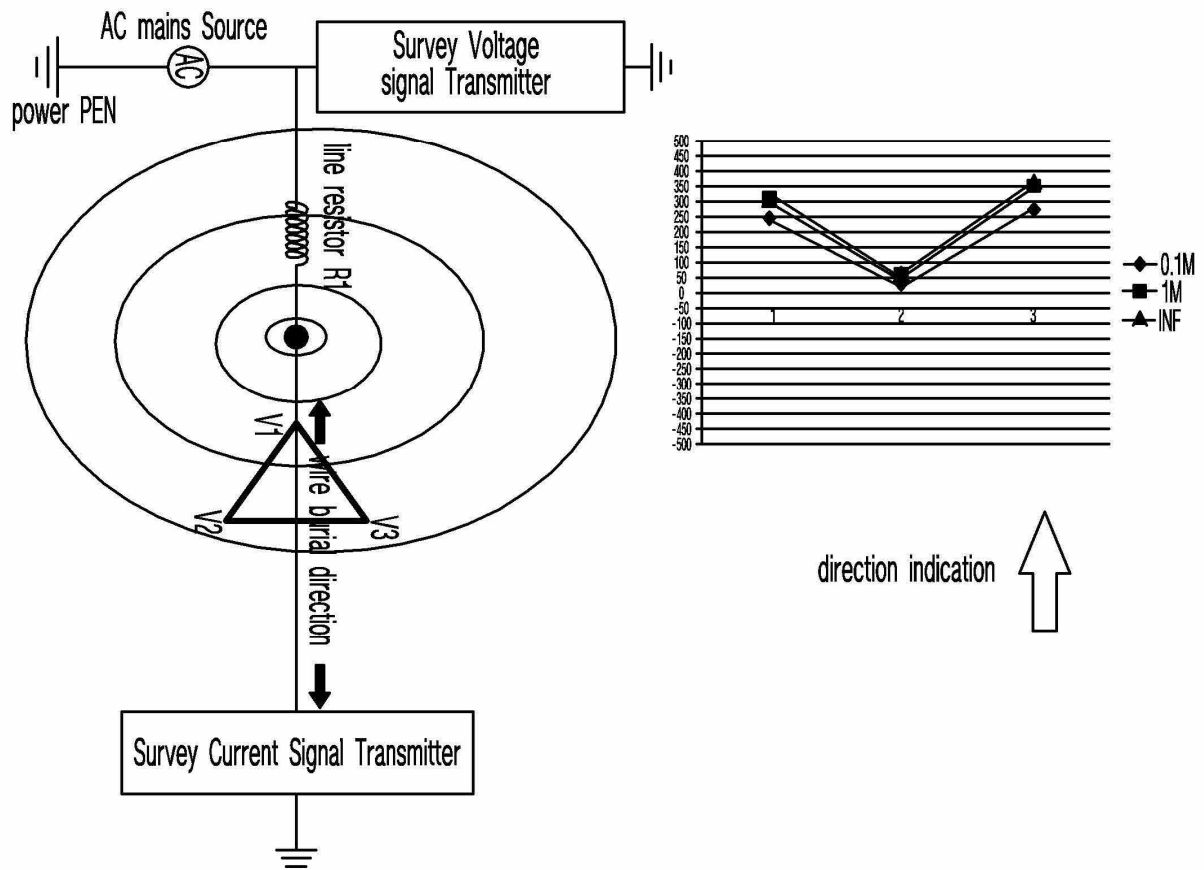


FIG. 49

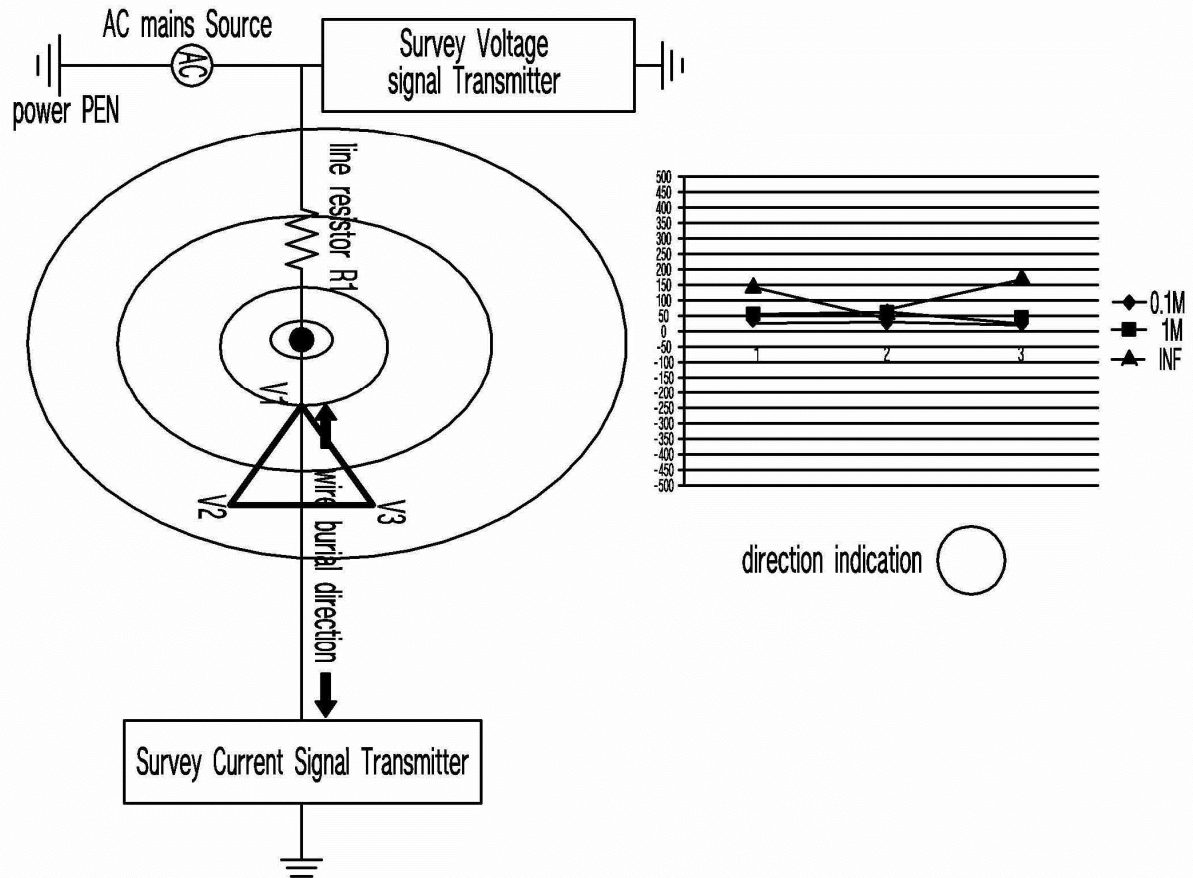


FIG. 50

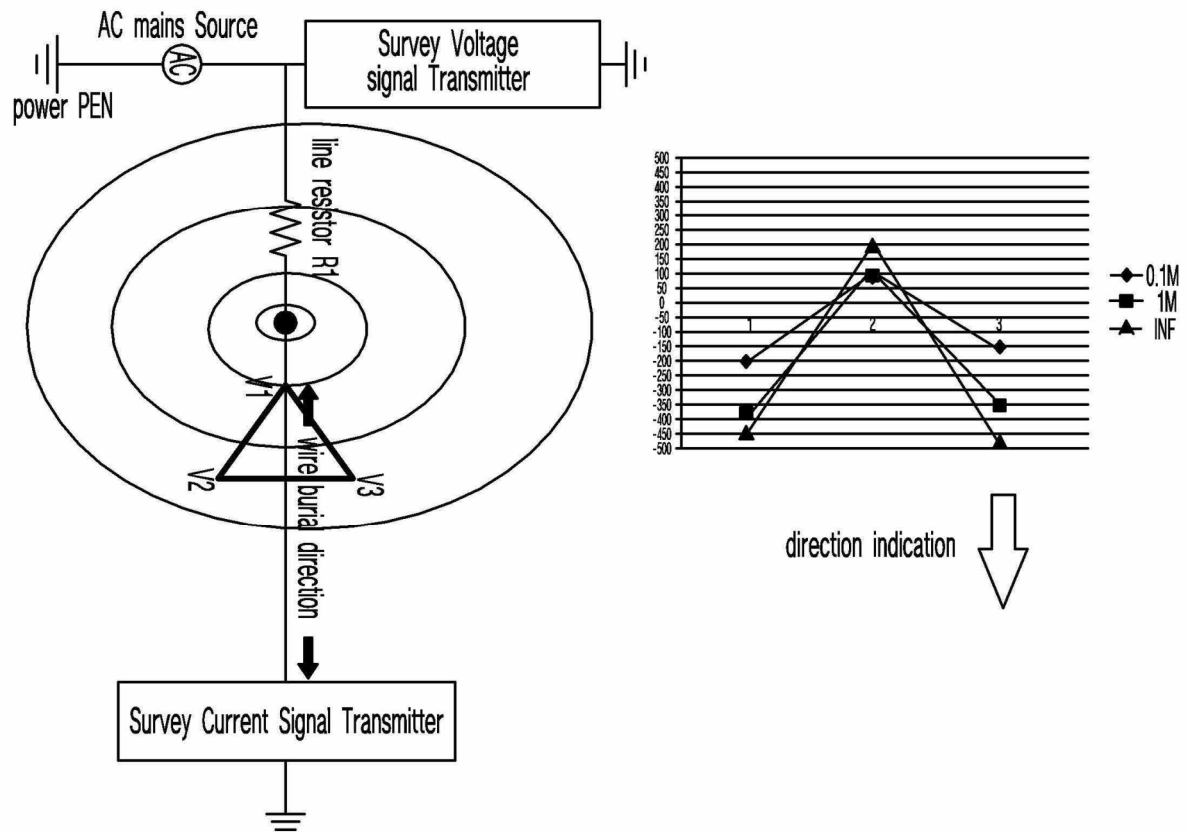


FIG. 51

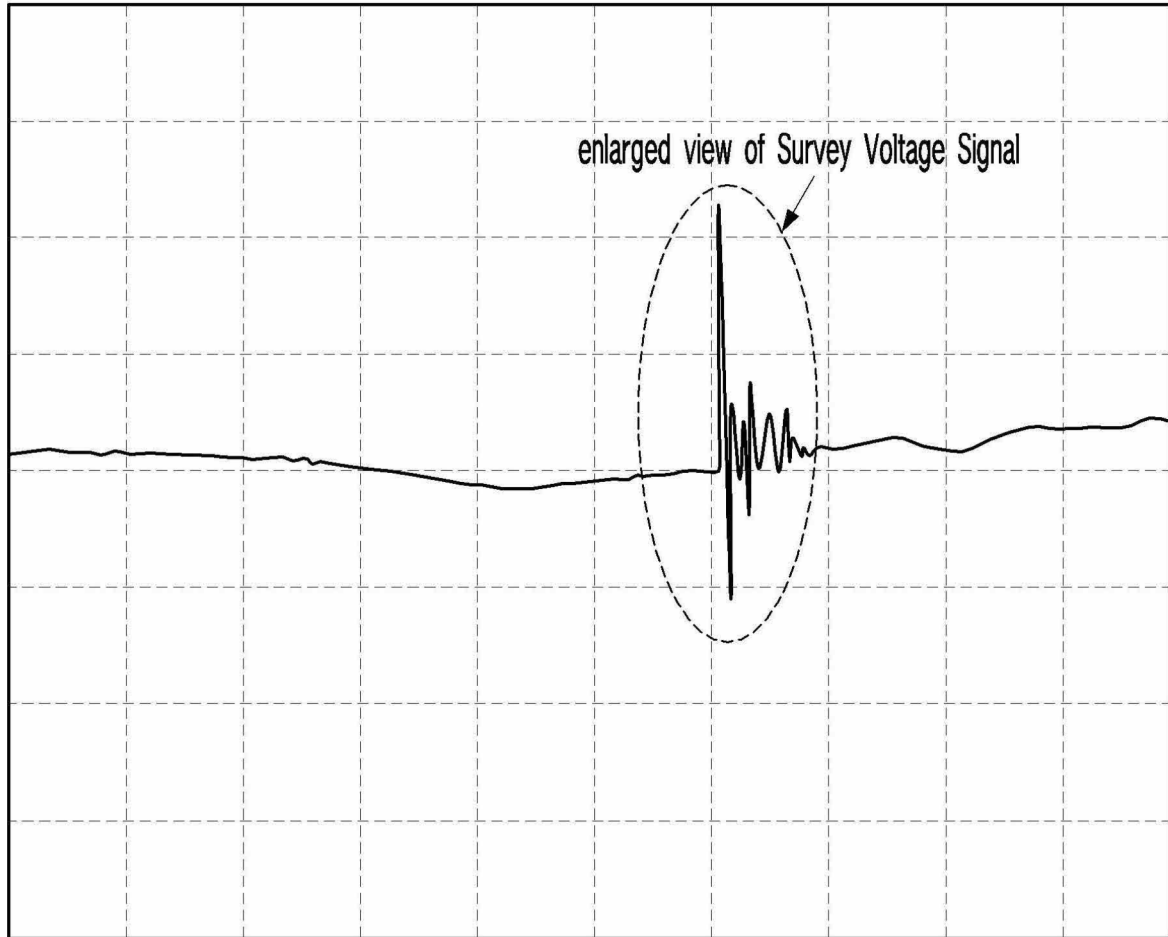
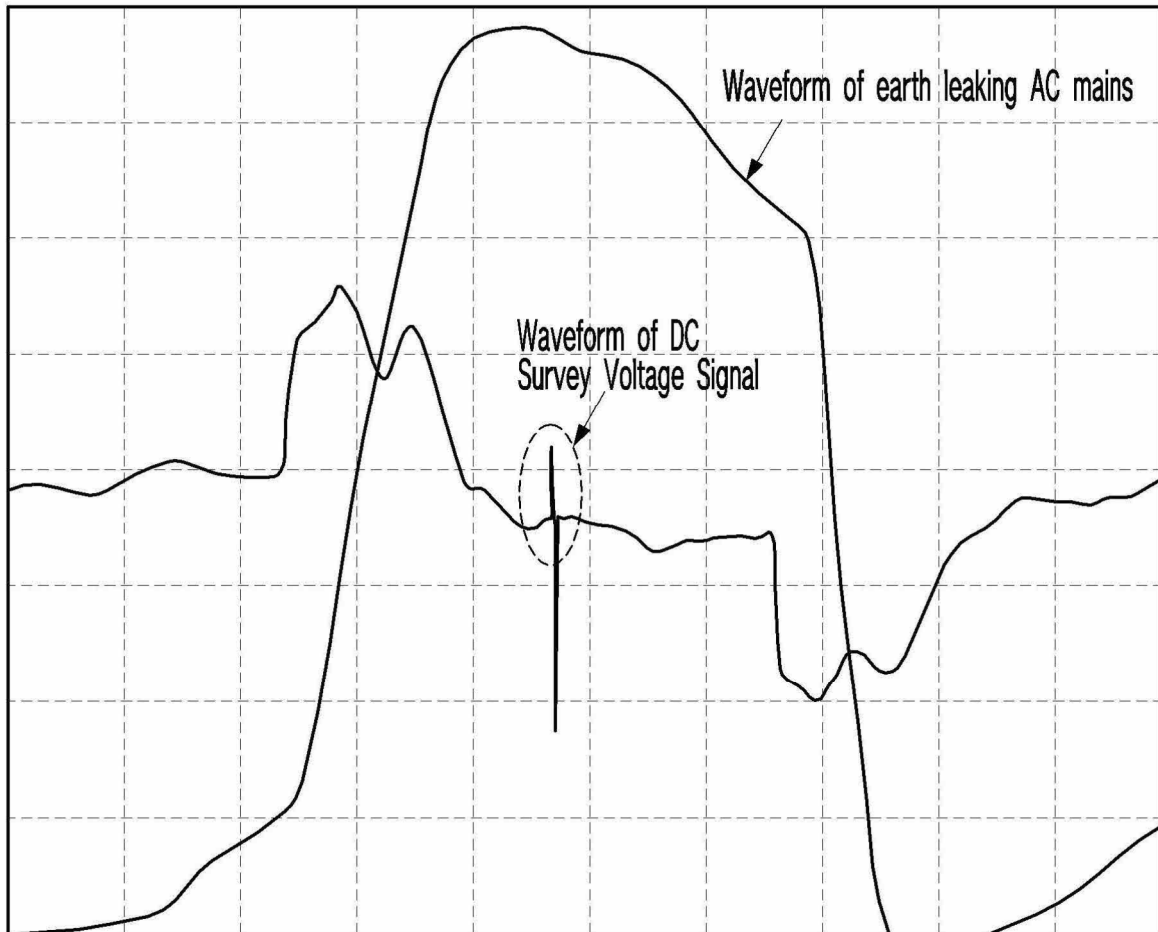


FIG. 52



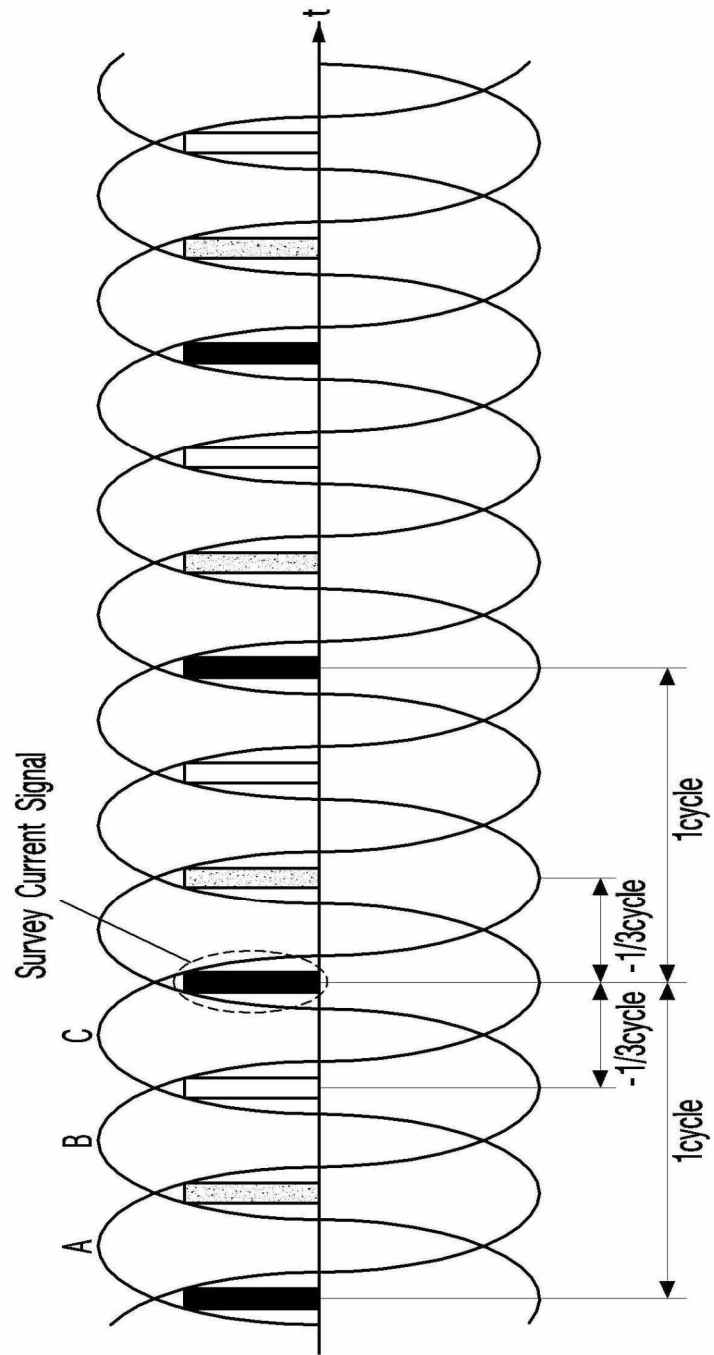


FIG. 54

Comparison of Polarity (Magnitude) of DC Survey Voltage Signal when logic value '1'

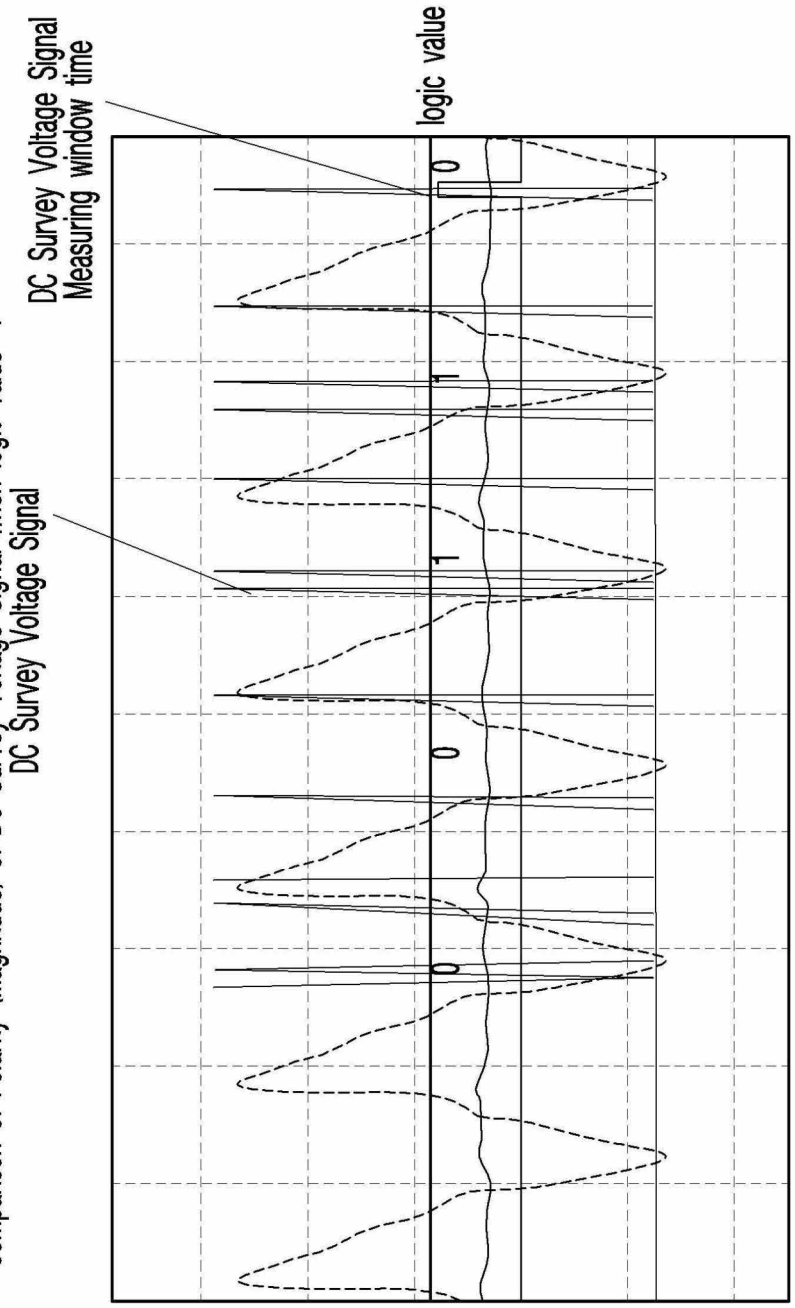


FIG. 55

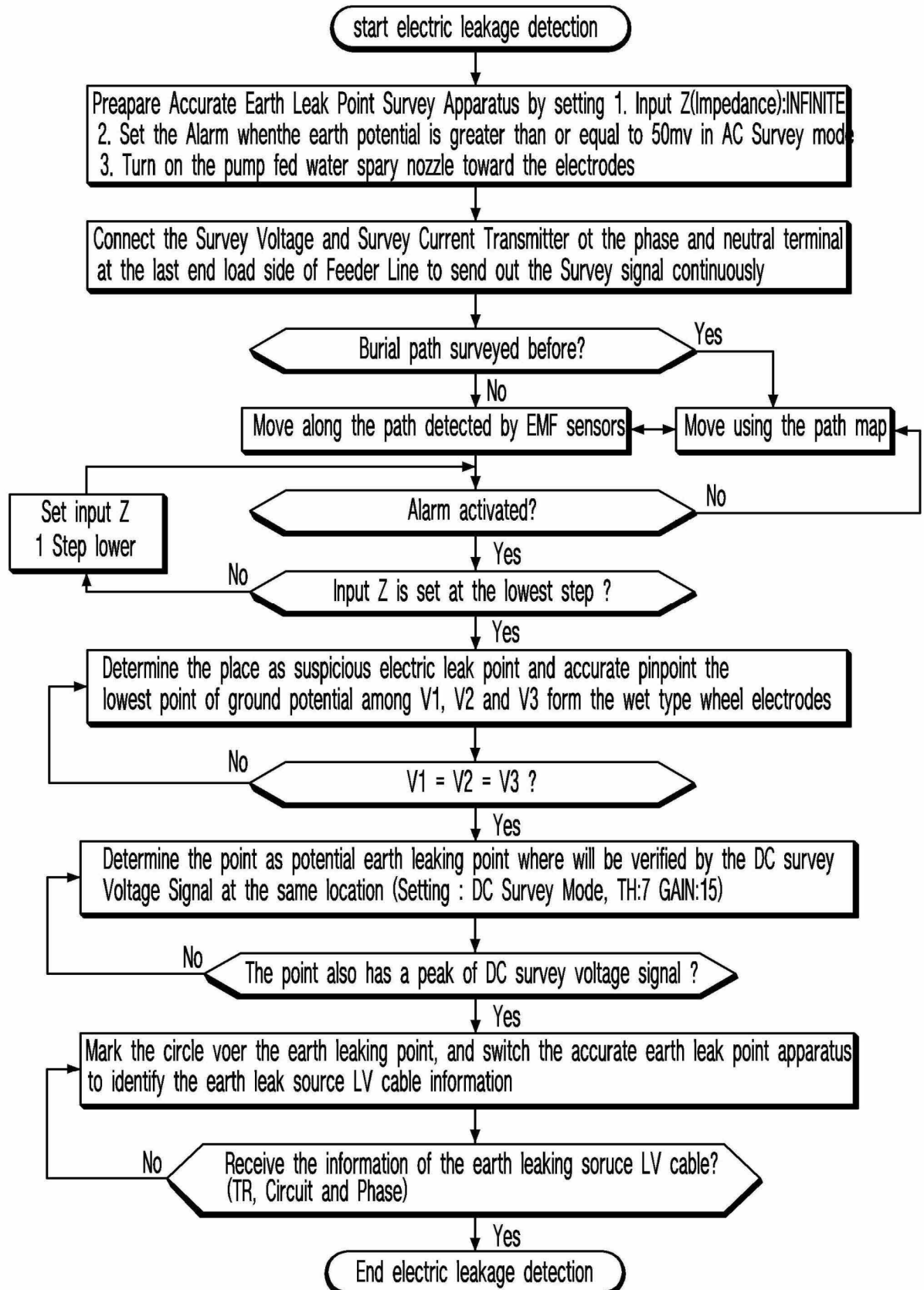


FIG. 56

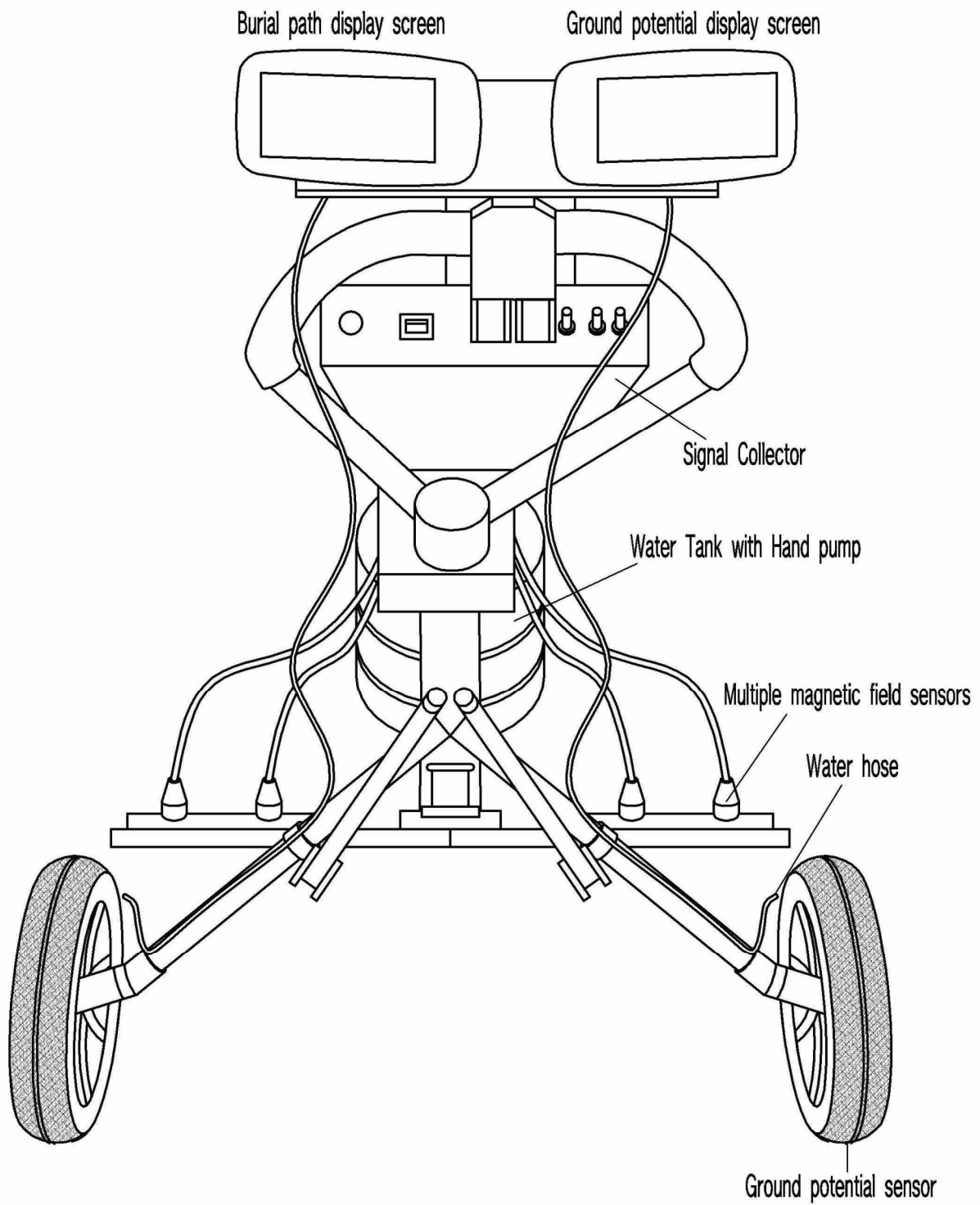


FIG. 57

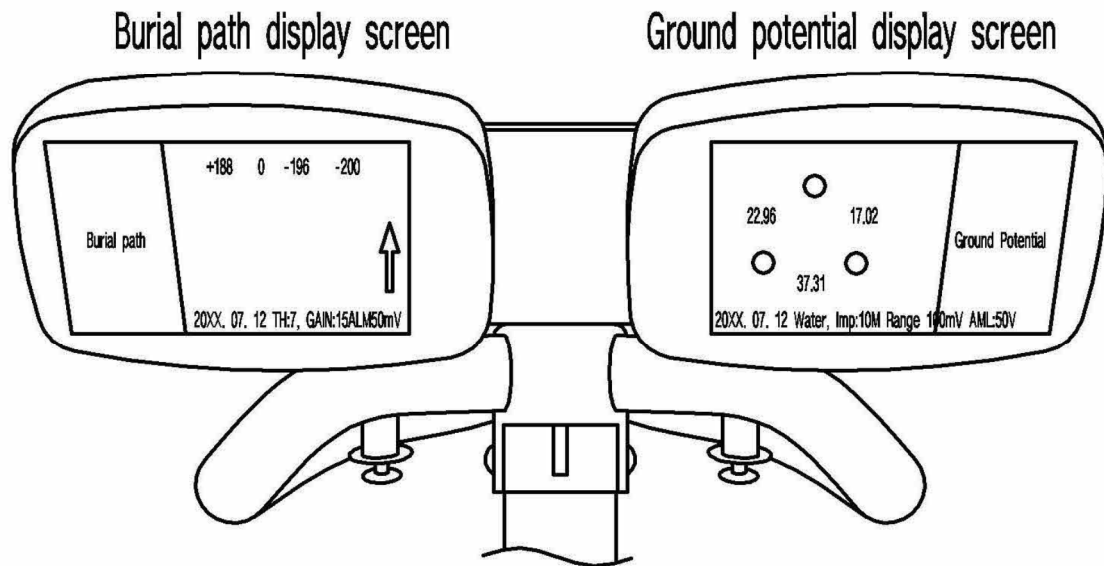


FIG. 58

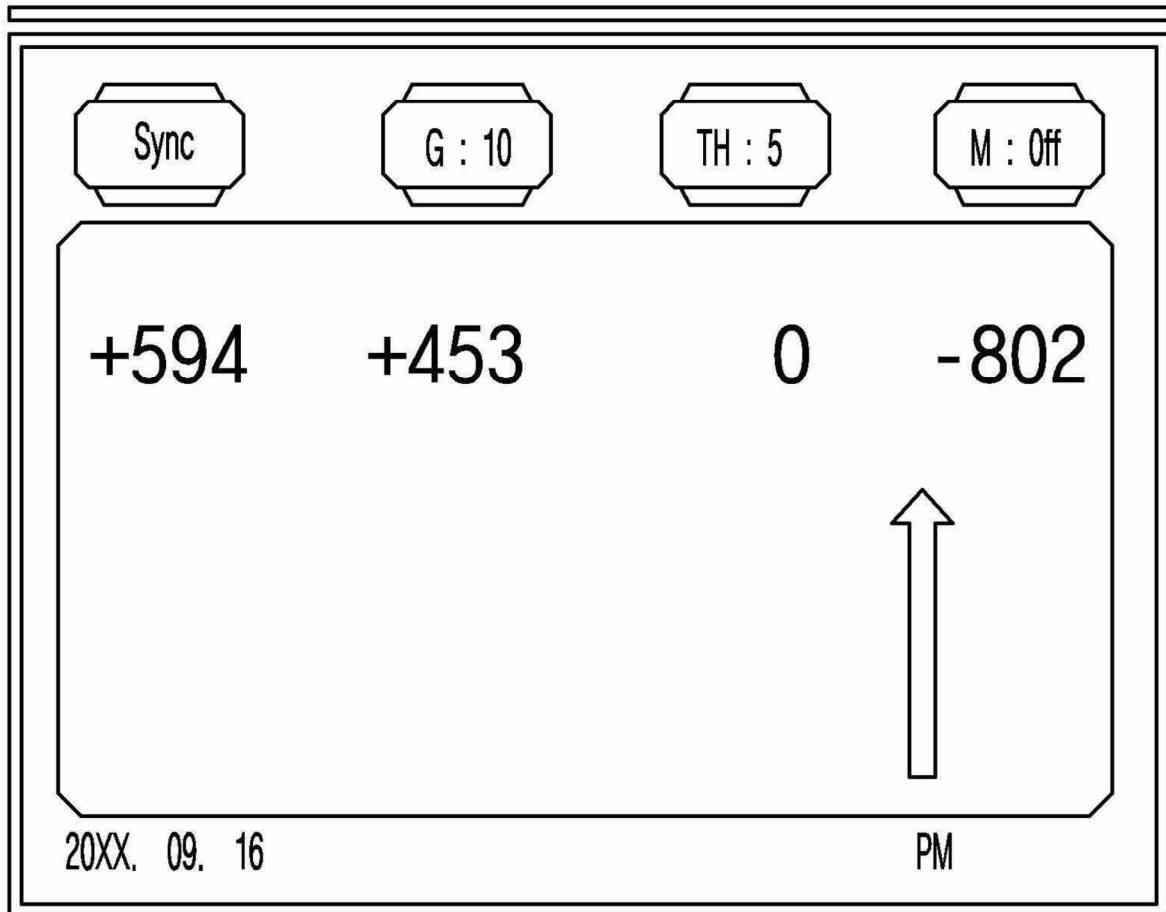


FIG. 59

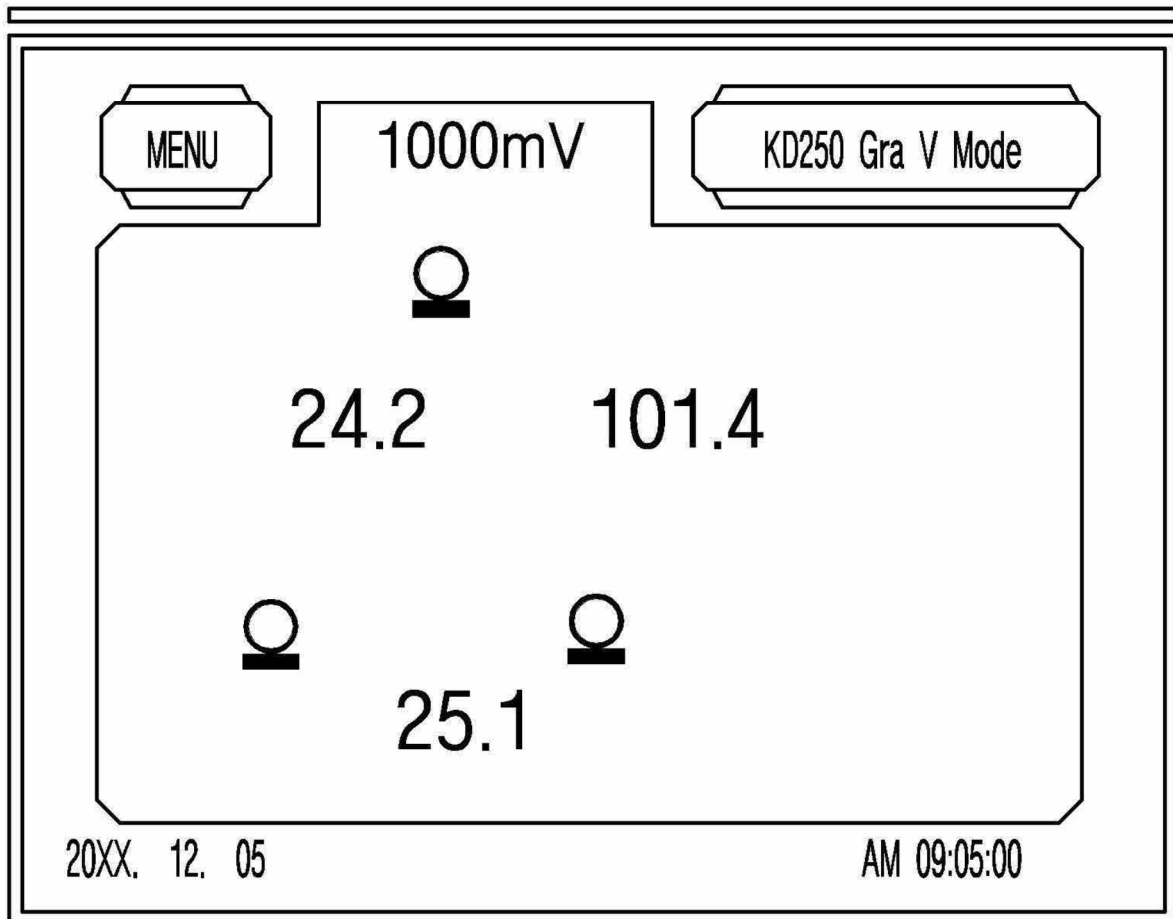


FIG. 60

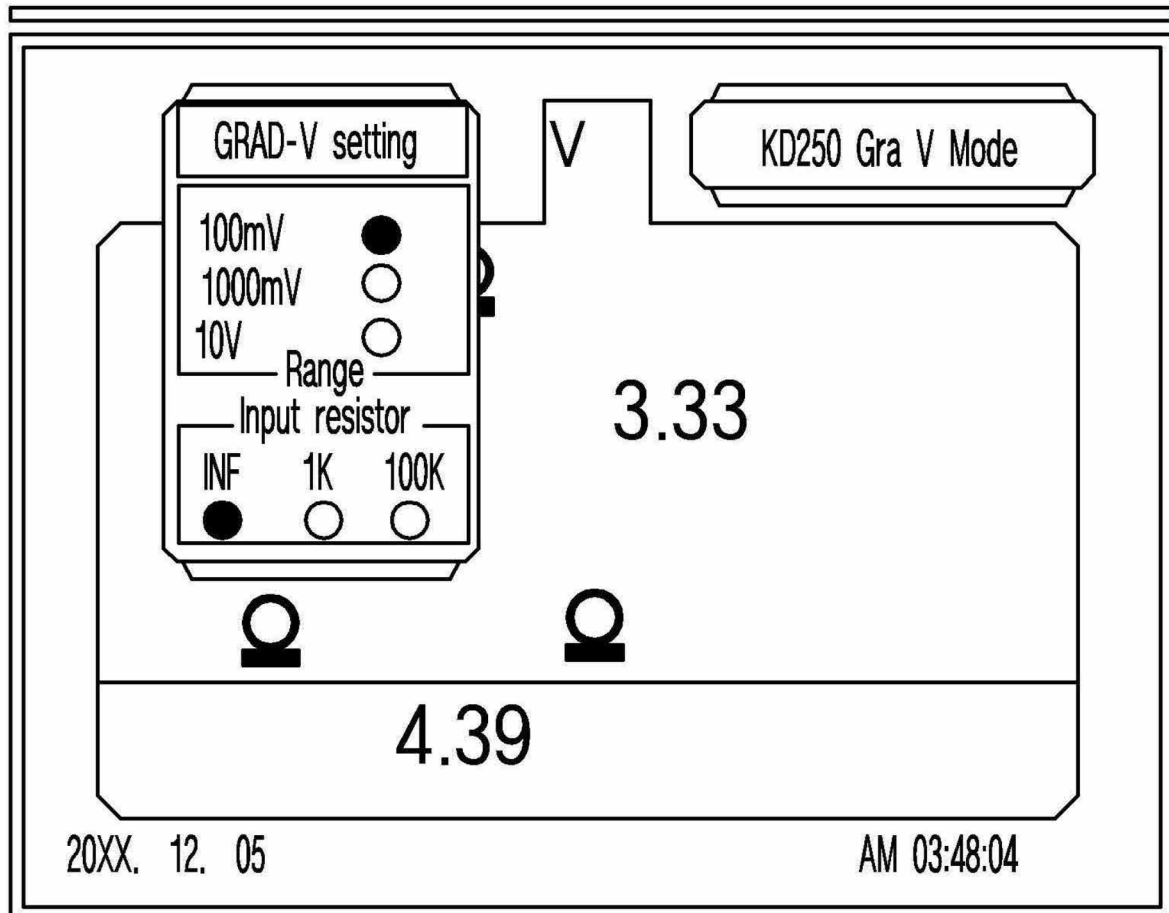
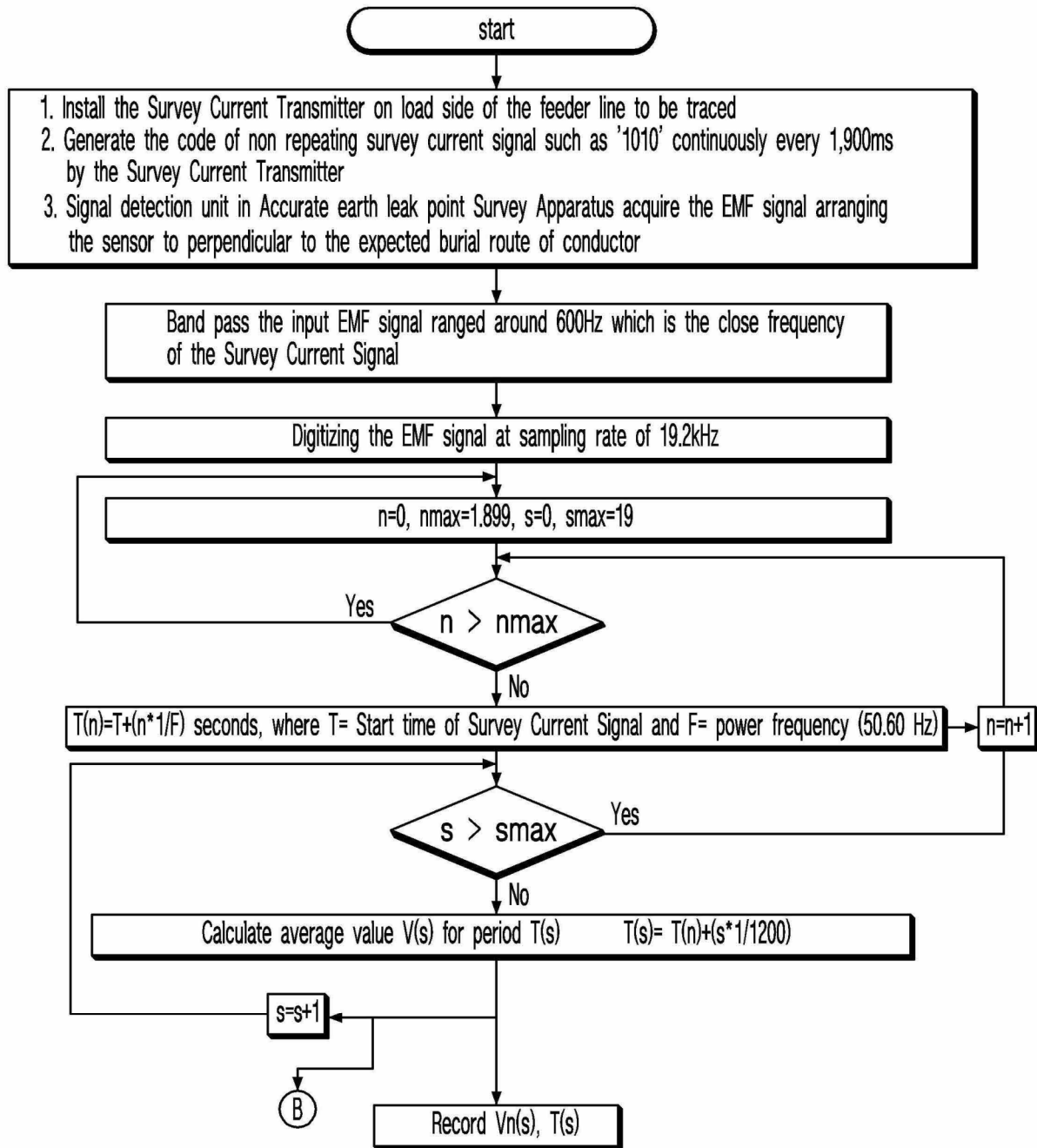


FIG. 61



*Note

Once the time 'T' of the true survey current signal determined, the time T(Start time of Survey Current Time) should be reset to be synchronized

FIG. 62

