

FIG. 76

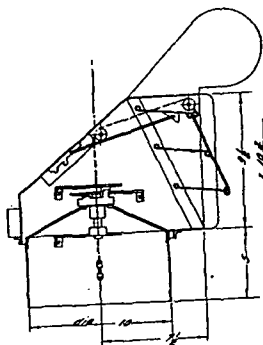


FIG. 78

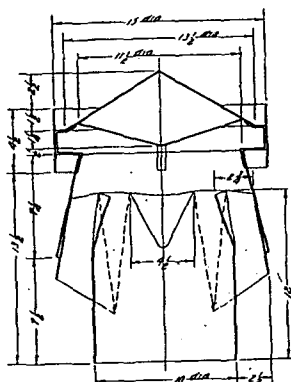


FIG. 80

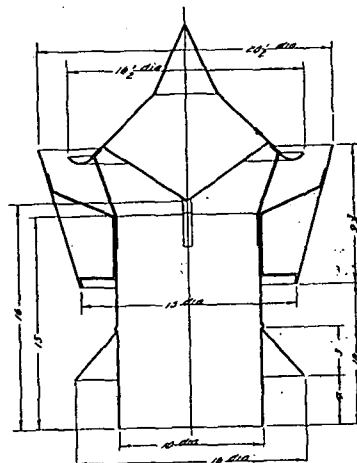


FIG. 77

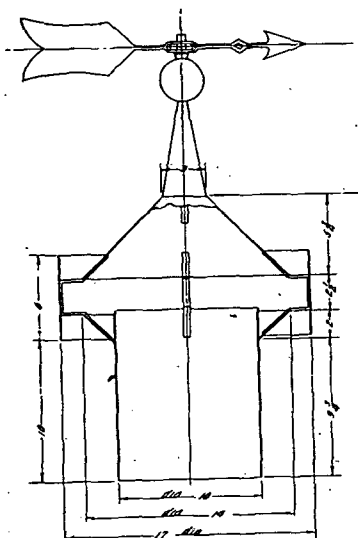


FIG. 79

DETAILS OF FIVE VENTILATORS TESTED



than two-thirds than that of the latter, and there is no inverted cone at the top to direct the flow of the exhaust outward. Further the outlet openings, as shown in Fig. 79, are small as compared with those of Fig. 76. The poorest ventilator is the stationary siphon, Figs. 75 and 80. This ventilator is so designed that the outside air enters the head; the head is small, the band is narrow and the air passages leading from the ventilators are restricted. The rotary ventilator shown in Fig. 64 has a low efficiency for this class of ventilators, due to the fact that the head is small and the air passages are restricted by louvers and frame work.

The data obtained in a series of tests on 10-in. ventilators made at Kansas State Agricultural College by Professors J. P. Calderwood, A. J. Mack and C. J. Bradley and reported in the AMERICAN SOCIETY OF HEATING AND VENTILATING ENGINEERS JOURNAL, July, 1922, are shown in Tables 62 to 66 inclusive, and the average results of Table 66 are shown in curve sheet, Fig. 82.

TABLE 62. RESULTS OF TESTS SHOWING THE VELOCITY IN FEET PER MINUTE INDUCED THROUGH SEVEN DIFFERENT PLAIN STATIONARY VENTILATORS

VEL. OF WIND IN MILES PER HR.	VELOCITY INDUCED THROUGH VENTILATOR, FEET PER MINUTE VENTILATOR DESIGNATION							
	No. Ventilator	1	2	3	4	5	6	7
4	145	185	266	148	185	142	133	160
8	241	287	355	257	287	238	242	267
12	337	390	446	366	390	334	350	375

TABLE 63. RESULTS OF TESTS SHOWING THE VELOCITY IN FEET PER MINUTE INDUCED THROUGH SIX STATIONARY SIPHONING VENTILATORS

VEL. OF WIND IN MILES PER HR.	VELOCITY INDUCED THROUGH VENTILATOR, FEET PER MINUTE VENTILATOR DESIGNATION						
	No. Ventilator	1	2	3	4	5	6
4	145	162	157	226	189	205	206
8	241	304	292	404	315	332	369
12	337	446	426	583	440	458	532

TABLE 64. RESULTS OF TESTS SHOWING THE VELOCITY IN FEET PER MINUTE INDUCED THROUGH FOUR PLAIN ROTARY VENTILATORS

VEL. OF WIND IN MILES PER HR.	VELOCITY INDUCED THROUGH VENTILATOR, FEET PER MINUTE VENTILATOR DESIGNATION				
	No. Ventilator	1	2	3	4
4	145	208	192	191	202
8	241	246	348	354	341
12	337	484	505	518	480