

(No Model.)

B. F. McMILLAN.
TALLY SHEET.

No. 409,223.

Patented Aug. 20, 1889.

K Scale of Car No. ----- Kind of Lumber -----

Scaled by -----

Tallied by -----

	C	G	G	G		G	C'	C''	TOTALS	TOTALS
A'	1	2	3	4	5	6	7	8	9	10
A	11	12	13	14	15	16	17	18	19	20
D	21	22	23	24	25	26	27	28	29	30
E	31	32	33	34	35	36	37	38	39	40
F	41	42	43	44	45	46	47	48	49	50
B	51	52	53	54	55	56	57	58	59	60
B	61	62	63	64	65	66	67	68	69	70
A	71	72	73	74	75	76	77	78	79	80
D	81	82	83	84	85	86	87	88	89	90
E	91	92	93	94	95	96	97	98	99	100
F	101	102	103	104	105	106	107	108	109	110
A	111	112	113	114	115	116	117	118	119	120
A	121	122	123	124	125	126	127	128	129	130
D	131	132	133	134	135	136	137	138	139	140
E	141	142	143	144	145	146	147	148	149	150
F	151	152	153	154	155	156	157	158	159	160
A	161	162	163	164	165	166	167	168	169	170
A	171	172	173	174	175	176	177	178	179	180
D	181	182	183	184	185	186	187	188	189	190
E	191	192	193	194	195	196	197	198	199	200
F	201	202	203	204	205	206	207	208	209	210
A	211	212	213	214	215	216	217	218	219	220
A	221	222	223	224	225	226	227	228	229	230
D	231	232	233	234	235	236	237	238	239	240
E	241	242	243	244	245	246	247	248	249	250
F	251	252	253	254	255	256	257	258	259	260
A	261	262	263	264	265	266	267	268	269	270
A	271	272	273	274	275	276	277	278	279	280
D	281	282	283	284	285	286	287	288	289	290
E	291	292	293	294	295	296	297	298	299	300
F	301	302	303	304	305	306	307	308	309	310
A	311	312	313	314	315	316	317	318	319	320
A	321	322	323	324	325	326	327	328	329	330
D	331	332	333	334	335	336	337	338	339	340
E	341	342	343	344	345	346	347	348	349	350
F	351	352	353	354	355	356	357	358	359	360
A	361	362	363	364	365	366	367	368	369	370
A	371	372	373	374	375	376	377	378	379	380
D	381	382	383	384	385	386	387	388	389	390
E	391	392	393	394	395	396	397	398	399	400
F	401	402	403	404	405	406	407	408	409	410
A	411	412	413	414	415	416	417	418	419	420
A	421	422	423	424	425	426	427	428	429	430
D	431	432	433	434	435	436	437	438	439	440
E	441	442	443	444	445	446	447	448	449	450
F	451	452	453	454	455	456	457	458	459	460
A	461	462	463	464	465	466	467	468	469	470
A	471	472	473	474	475	476	477	478	479	480
D	481	482	483	484	485	486	487	488	489	490
E	491	492	493	494	495	496	497	498	499	500
F	501	502	503	504	505	506	507	508	509	510
A	511	512	513	514	515	516	517	518	519	520
A	521	522	523	524	525	526	527	528	529	530
D	531	532	533	534	535	536	537	538	539	540
E	541	542	543	544	545	546	547	548	549	550
F	551	552	553	554	555	556	557	558	559	560
A	561	562	563	564	565	566	567	568	569	570
A	571	572	573	574	575	576	577	578	579	580
D	581	582	583	584	585	586	587	588	589	590
E	591	592	593	594	595	596	597	598	599	600
F	601	602	603	604	605	606	607	608	609	610
A	611	612	613	614	615	616	617	618	619	620
A	621	622	623	624	625	626	627	628	629	630
D	631	632	633	634	635	636	637	638	639	640
E	641	642	643	644	645	646	647	648	649	650
F	651	652	653	654	655	656	657	658	659	660
A	661	662	663	664	665	666	667	668	669	670
A	671	672	673	674	675	676	677	678	679	680
D	681	682	683	684	685	686	687	688	689	690
E	691	692	693	694	695	696	697	698	699	700
F	701	702	703	704	705	706	707	708	709	710
A	711	712	713	714	715	716	717	718	719	720
A	721	722	723	724	725	726	727	728	729	730
D	731	732	733	734	735	736	737	738	739	740
E	741	742	743	744	745	746	747	748	749	750
F	751	752	753	754	755	756	757	758	759	760
A	761	762	763	764	765	766	767	768	769	770
A	771	772	773	774	775	776	777	778	779	780
D	781	782	783	784	785	786	787	788	789	790
E	791	792	793	794	795	796	797	798	799	800
F	801	802	803	804	805	806	807	808	809	810
A	811	812	813	814	815	816	817	818	819	820
A	821	822	823	824	825	826	827	828	829	830
D	831	832	833	834	835	836	837	838	839	840
E	841	842	843	844	845	846	847	848	849	850
F	851	852	853	854	855	856	857	858	859	860
A	861	862	863	864	865	866	867	868	869	870
A	871	872	873	874	875	876	877	878	879	880
D	881	882	883	884	885	886	887	888	889	890
E	891	892	893	894	895	896	897	898	899	900
F	901	902	903	904	905	906	907	908	909	910
A	911	912	913	914	915	916	917	918	919	920
A	921	922	923	924	925	926	927	928	929	930
D	931	932	933	934	935	936	937	938	939	940
E	941	942	943	944	945	946	947	948	949	950
F	951	952	953	954	955	956	957	958	959	960
A	961	962	963	964	965	966	967	968	969	970
A	971	972	973	974	975	976	977	978	979	980
D	981	982	983	984	985	986	987	988	989	990
E	991	992	993	994	995	996	997	998	999	1000
F	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010
A	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020
A	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030
D	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040
E	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050
F	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060
A	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070
A	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080
D	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090
E	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100
F	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110
A	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120
A	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130
D	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140
E	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150
F	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160
A	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170
A	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180
D	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190
E	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200
F	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210
A	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220
A	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230
D	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240
E	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250
F	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260
A	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270
A	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280
D	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290
E	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300
F	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310
A	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320
A	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330
D	1331									

UNITED STATES PATENT OFFICE.

BENJAMIN F. McMILLAN, OF McMILLAN, WISCONSIN.

TALLY-SHEET.

SPECIFICATION forming part of Letters Patent No. 409,223, dated August 20, 1889.

Application filed January 21, 1889. Serial No. 296,970. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN F. McMILLAN, of McMillan, in the county of Marathon and State of Wisconsin, have invented a new and useful Tally-Sheet; and I do hereby declare the following to be a full, clear, and exact description of said invention, reference being had to the accompanying drawing, and to the letters or figures of reference marked thereon, which form a part of this specification.

This tally-sheet is especially intended and adapted for checking off and making up a record of the pieces and amount of sawed lumber as the lumber is handled, either in putting it on or taking it off from a car or wagon or in piling it in a lumber-yard.

The drawing shows a sufficient portion of the face of the sheet to illustrate all its parts and show the manner of using it, though portions of it have been broken away to reduce the space in which it is exhibited and to obviate the making of a large number of figures.

This sheet is ordinarily of paper, on which are printed the words and lines indicated by the drawing, though a slate or other tablet might be prepared to accomplish the same purpose.

The sheet is prepared with a number of heavy horizontal lines A A, parallel to each other but at a distance apart, between which are lighter horizontal lines B B, parallel with the heavier lines A A, whereby the spaces between the heavier lines are divided into narrower lateral spaces. There are also some heavy longitudinal or vertical lines C, C', and C'', which cross the lines A and B at right angles, the line C being located near the left-hand side of the sheet and the lines C' and C'' being located at a distance apart near to, but at a little distance from, the right-hand side of the sheet. In the spaces at the left-hand side of the sheet bounded by the lines A A and C are figures commencing with a small one, (shown in the drawing as 6,) which occupies the first or upper space, and is followed by 7, 8, 9, 10, and succeeding figures in the regular order of numeration in each succeeding space, to as high a number as there are spaces on the sheet, which may be carried to a number which shall correspond with

the greatest number of feet that are liable to be found in any single piece of lumber.

In the drawing the spaces between the lines A A are divided by the lighter lines B B into three smaller spaces D, E, and F. If desired, the lines A A may be placed a greater distance apart, and more light lines B B may be drawn between them, thereby providing a greater number of spaces corresponding with the spaces D, E, and F. Across the lines A and B are other lines G G, running longitudinally or vertically of the sheet, at a little but regular distance apart, from the line C to the right-hand edge of the sheet, where by the spaces D, E, and F are divided into little squares or parallelograms. In each of the laterally-extending series of squares in the spaces D D is placed a series or column of figures, commencing at the left hand with the same number as is placed in the space bounded by the lines A A and C, and continuing toward the right with numbers increasing in regular arithmetical progression, by the amount of the number in the first space, continuing across the sheet laterally to the line C'. Thus in the drawing, at the upper left-hand side, is a figure 6 in large character in the space bounded by the lines A A and C, and in the first square in the space D is the figure 6, and in the second space the figure 12, and in the third space 18, and so on, continuing to the last space, in which is "300," which is the fiftieth space. The same order of numbers occurs in each one of the columns—as, for instance, in the column headed by 15 the numbers increase regularly by the addition of 15 to 30, 45, 60, 75, &c.

The lateral spaces E and F below the figures in the space D are left blank, and in using this sheet, as a piece of lumber is placed on a car, (it being measured by the ordinary lumber-rule or the number of feet contained in it ascertained in some other way,) a check, preferably in the form of a short line H, is made in the lateral column E or F in the square at the left immediately under the first figure in the column D in which the number corresponds with the number of feet in the piece of lumber, whereby the one piece of lumber is tallied on the sheet, and when additional pieces of lumber of the same number

of feet each are loaded on the car they are also tallied in the same column E, each in the next succeeding blank space; and as pieces of lumber are placed on the car having another number of feet in them each piece is checked or tallied in another column E or F, corresponding with the number of feet in the piece of lumber. If in loading a single car a greater number of pieces of lumber occur containing the same number of feet than are sufficient to carry the checks entirely across the sheet, the tally-keeper may commence at the beginning of the column again, making a second check in the nature of a cross-check—such as is shown in the drawing in the columns 10 and 12—or other character proper to indicate a second tally, in the same square which had already received one check. The two columns E and F are convenient for entering therein, respectively, two grades of lumber, as first and second quality, and additional columns may be made on the sheet for other qualities, grades, or kinds of lumber, if desired. The spaces at the right of the lines C' and C'' are used for entering the total of the amount of lumber indicated in the spaces already tallied in the columns E and F under the figures in the column D, and the amounts of the first quality of lumber appearing in the column E are preferably carried into the first column of totals, and the amount appearing in the column F are preferably carried into the second column of totals, and these columns of totals may be added together individually, and the entire amount set down in the lower right-hand spaces bounded by the line A and lines C' and C''. A heavy line A', parallel with the lines A at a little distance above the first line A, with the lines C C' C'' and G G continued thereto, form a series of spaces, in which, for convenience, are placed figures in the regular order of numeration, commencing with 1 and continuing across the sheet to the line C', which line of figures may be used conveniently for ascertaining the number of pieces of any particular number of feet each that have been loaded on the car, and the space at the right of the lines C and C', respectively, contains the word "totals" at the head of the vertical columns thereunder. A space K at the head of

the sheet is preferably left unoccupied by the lines and figures hereinbefore described, as a convenient place for entering data of the kind of lumber, whether of pine, maple, or other wood, and of the car on which it is piled, and of the names of the persons who made the measurement and tally.

What I claim as new, and desire to secure by Letters Patent, is—

1. A tally-sheet having thereon several series of numbers in arithmetical progression, one of which series is headed by a small number, and each succeeding series of which several series is headed by the number next larger than the one at the head of the preceding series, in combination with blank spaces adjoining and corresponding with the several numbers in each series of numbers, substantially as described.

2. A tally-sheet having several series of numbers in arithmetical progression, in each of which series the progression is by the amount of a corresponding number placed in larger character at or near the head of the column of the series, which numbers in large characters occur in the regular order of numeration, and the same numbers appear at the head of each of the corresponding columns of figures in arithmetical progression, in combination with one or more blank spaces opposite to and corresponding with the figures in the columns in arithmetical progression, substantially as described.

3. A tally-sheet having thereon several successive columns of figures, in each of which columns the figures are in arithmetical progression, and each successive column commencing with the next succeeding number in the order of numeration, in combination with spaces opposite to the numbers in said columns for receiving checks therein, and spaces at the ends of such series of spaces for checks for entering therein the totals indicated by such figures, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

BENJAMIN F. McMILLAN.

Witnesses:

GEO. H. REYNOLDS,
JAS. N. CONLISK.