

(No Model.)

3 Sheets—Sheet 3.

A. L. NICHOLS.
TALLY SHEET.

No. 479,449.

Patented July 26, 1892.

Fig. 4

	b ⁶										b ⁷										b ⁸										b ⁹										TOTAL.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Fig. 5

b ²		b ³	
John Doe		Rec'd 178 votes	
Richard Roe		Rec'd 65 votes	
John Smith		Rec'd 132 votes	
TOTAL.		9	

Witnesses
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Alvin L. Nichols
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UNITED STATES PATENT OFFICE.

ALVIN L. NICHOLS, OF GROVE CITY, OHIO.

TALLY-SHEET.

SPECIFICATION forming part of Letters Patent No. 479,449, dated July 26, 1892.

Application filed October 17, 1891. Serial No. 409,022. (No model.)

To all whom it may concern:

Be it known that I, ALVIN L. NICHOLS, a citizen of the United States, residing at Grove City, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Tally-Sheets, of which the following is a specification.

My invention relates to the improvement of election tally-sheets, and has for its objects the production of a tally-sheet of superior form and construction; to so arrange and construct said tally-sheet as to support the tally-spaces which are in alignment with the name of the candidate at all times adjacent to or near said name, and by this means not only admit of the tallying process being performed with greater rapidity, but obviate the tendency toward making such errors as arise through the outer tally-spaces being at positions remote from the candidate's name; to combine therewith means for rapidly and accurately computing the number of votes; to so construct said tally-sheet as to admit of the totals being rapidly and accurately transferred to the back of the sheet; to admit of the tally-sheets for the various political parties being compactly and neatly arranged within one cover and in a convenient position for use. These objects I accomplish in the manner illustrated in the accompanying drawings, in which—

Figure 1 is a face view of my improved tally-sheets, showing the relative position of the same when folded. Fig. 2 is an edge view of the same, showing, for the sake of clearness, one of the sheets partially unfolded. Fig. 3 is a view in perspective of one of the tally-sheets partially unfolded. Fig. 4 is a face view of a portion of a tally-sheet shown completely unfolded, and Fig. 5 is a view of the reverse side of the outer end portion of the partial sheet shown in Fig. 4.

Similar letters refer to like parts throughout the several views.

a represents a suitable cover or backing-piece, which is formed of paper or other suitable flexible material.

b represent my improved tally-sheets, each of which is formed, as shown in the drawings, of one strip or sheet of paper. Each of these

sheets *b* consists, as shown, of a number of vertical folds, as indicated at *b'*, *b²*, *b³*, *b⁴*, and *b⁵*.

In Figs. 4 and 5 the vertical and parallel dotted lines *b⁶*, *b⁷*, *b⁸*, and *b⁹* indicate the folding-lines, said folding-lines being arranged at equidistant points. The folds *b'*, *b²*, *b³*, and *b⁴* are of corresponding widths, while the fold *b⁵*, which forms a lip or extension of the outer fold *b⁴*, is comparatively narrow, as shown. Each of the folds *b²* has its rear face affixed to the backing-sheet *a*, these connections with said backing-sheets being made at equidistant points thereon.

When folded and not in actual use each of the tally-sheets is arranged as shown in Fig. 1 of the drawings—*i. e.*, the fold *b³* rests upon the fold *b²*, the fold *b⁵* is turned against the under side of the fold *b⁴*, the latter resting upon the fold *b²*, and the fold *b'* is turned to rest upon the fold *b⁴*. As will readily be seen, this arrangement results in the tally-sheet being folded in a compact form and in reducing the area of space covered by each of said tally-sheets to the width of one of the folds. As shown in the drawings, both faces *c* and *c'* of the first fold *b'* have written, printed, pasted, or otherwise produced thereon and at the head thereof the name of one of the political parties. Beneath each of these party names or titles are arranged between suitable horizontal parallel lines the titles of the officers to be voted for, and beneath said titles are left spaces for the names of the candidates. The face of each tally-sheet, which corresponds with the face *c* of the fold *b'*, has printed thereon intersecting rule-lines, which result, as shown, in the formation of, preferably, two rows of tally-spaces *f*, which form extensions or continuations of the official title-spaces of said face *c*. These double rows of tally spaces or squares, which extend from the inner ends of the official title-spaces, are continued throughout the folds *b²*, *b³*, and *b⁴*, extending to the folding-line *b⁹*. Immediately above the upper row of tally-spaces are arranged parallel therewith two rows of number-spaces *f'*, the spaces of said rows corresponding in number with the tally-spaces beneath. As shown in the draw-

ings, the tally and number spaces above mentioned are preferably so divided as to cause each row of spaces upon any one fold to contain ten of the spaces, thus making five tallies in each of said spaces. The total number of tallies in each row of any one fold is fifty. The number of tallies marked are, however, indicated by the numbers which appear in the number-spaces f' . In the upper row of said number-spaces, beginning at the left with the figure "5" are arranged, consecutively in multiples of five, numbers which indicate the number of tallies which should appear in one of the tally squares or spaces in vertical alignment with said number, assuming that all the tally-spaces are filled up to and including the tally-space indicated. In the lower row of number-spaces f' are arranged from left to right multiples of five, which run from "5" to "50" on each fold. Opposite the outer end of the number-spaces f' is printed or otherwise made to appear at the head of the fold b^5 the word "Total," and beneath the said word "Total" the horizontal lines which form the upper and lower boundary of the tally-spaces are continued to the outer edge of said total fold to form horizontal parallel-spaces, upon which may be written figures representing the number of votes cast for each candidate.

As shown in Fig. 5 of the drawings, the rear face of the folds b^3 and b^4 have printed thereon horizontal lines g , which register with the horizontal lines on the opposite side of the sheet which form the upper and lower boundaries of each pair of tally-spaces.

Each of the sheets being folded, as shown in Fig. 1 of the drawings, with the faces c' of the folds b' uppermost, the method of opening and using my improved tally-sheet is as follows: The fold b' is turned outward or reversed to bring its side or face c' uppermost. The folds b^4 b^3 , although remaining doubled against each other, are turned at the folding-line b^7 to bring the printed and ruled faces of the folds b^2 and b^3 uppermost and in alignment with the face c' of the fold b' . As the votes are read, the tallies for each candidate are marked, as indicated in Fig. 4 of the drawings, in the tally-spaces opposite said candidate's name and title of the office, beginning in the upper row of said tally-spaces and continuing from left to right until one of said candidates shall have received sufficient tallies to fill the tally-spaces of the upper row throughout the width of the first fold b^2 , or until said candidate shall have received fifty votes. Fifty votes having thus been tallied, the face of the fold b^2 is covered by turning the fold b' over the same, which, as will readily be seen, result in bringing the names upon the face c' of the fold b' adjacent to the tally-rows of the space b^3 . As the votes are read they are tallied upon the fold b^3 , beginning with the first spaces to the left thereof, as prescribed for the fold b^2 . When a row of

tally-spaces on said fold b^3 shall have been completed, the fold b' is reversed and the folds b^3 and b^4 together doubled over the fold b^2 , thus bringing the printed face of the fold b^4 adjacent to the candidate's names and official titles. This having been done, the tallying of the votes is continued, as before prescribed, upon the face of the fold b^4 . In case of any one row of tallying spaces thus becomes filled throughout its length the folds are again turned to the position first prescribed for tallying upon the fold b^2 , and the second row of spaces beneath said filled line is used, as prescribed, for the upper row. In this case the uncompleted rows of the folds are carried out with tally-marks as the votes are read, beginning at the printed heads, before folding. All the votes having thus been tallied upon the sheet, the total number tallied for each candidate is indicated by figures in the total column or fold b^5 . In making up these totals, it is evident that all the tallies marked for each candidate are added together, regardless of the fold upon which they appear, and that where the rows of tally-spaces in the folds are not completely filled the totals are readily ascertained by reference to and adding the figures of the lower row of the number-spaces f' , which are vertically above the last tallies marked. The numbers of the upper row serve to give the total of votes tallied, where the tally-spaces are complete throughout the fold-rows.

In order to transfer the total of the votes received by each candidate to the reverse side of the tally-sheet, as is ordinarily required, I cause the names of the candidates to be written on the rear side of each of the folds b^4 on the lines g , thus causing the name so written to register or remain in alignment with the names on the opposite side and at the opposite end of the sheet. Upon the rear side of the fold b^5 , opposite said names so written, I cause to be written or printed the words "Received — votes." In transferring the totals from the face of the fold b^5 on the spaces between the words "Received" and "Votes" I cause the fold b^5 to be turned or folded inward to bring its rear face against the rear face of the fold b^4 , which, as will readily be seen, result in bringing the numbers previously indicated in the total column in horizontal alignment with the spaces between said words "Received" and "Votes," and admitting of said numbers being readily transferred to said spaces without referring to the names of the candidates or the reverse side of the sheet.

By the construction herein shown and described it is evident that at no time during the tallying operation is the tally-clerk required to make the tallies at a greater distance than ten spaces from the name of the candidate. In this manner the marking of the tallies rapidly and accurately is greatly facilitated, inasmuch as the time ordinarily

consumed in following out the tally-row to a tally-space remote from a candidate's name is saved, and the close proximity of the name and tally-space prevents the liability of making the tally in the wrong space.

By my construction it will be seen that the totals of the votes received may be readily and accurately transferred to the reverse side of the tally-sheet and that said totals may be quickly ascertained by reference to the numbers of the spaces f' .

From the arrangement and construction shown it is not only evident that a form of tally-sheet is produced in which speed and accuracy in counting votes may be obtained, but that the system of folding herein described forms a means of concentrating the tally-sheets in a neat and compact form.

Having now fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a tally-sheet, the sheet b , having, as described, two or more parallel folds, as b' ,

b^2, b^3 , and b^4 , name-spaces on both faces of the first fold and registering with each other, tally-spaces on the remaining folds arranged opposite said name-spaces, and two rows of numbers in multiples of five arranged, as described, above said tally-spaces, substantially as and for the purpose specified.

2. In a tally-sheet, the sheet b , having, as described, two or more parallel folds, as b' , b^2, b^3, b^4 , name-spaces on both faces of the first fold and registering with each other, tally-spaces on the remaining folds arranged opposite said name-spaces, number-spaces on the fold b^5 and arranged in alignment with the tally-spaces, and name and number spaces on the opposite sides of the folds b^3, b^4 , said last-mentioned spaces registering with the horizontal tally-rows of the opposite side of the sheet, substantially as described.

ALVIN L. NICHOLS.

In presence of—

C. C. SHEPHERD,
THOS. S. GATES.