

Feb. 23, 1965

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3,170,719

BOWLING SCORE SHEETS

Filed Sept. 21, 1961

4 Sheets-Sheet 1

FIG. 1 is a diagram of a bowling score sheet. The sheet is divided into several sections. At the top, there are fields for "1807", "METER STOP", "GAMES", "WHEN TO USE THE RESET BUTTON", and "1807". Below these are fields for "LANE", "METER START", and "CYCLES". The main body of the sheet is a grid with 10 rows and 10 columns. The rows are numbered 1 through 10. The columns are numbered 1 through 10. The grid is used for recording bowling scores. The sheet also includes a "TOTAL" column on the right. The sheet is labeled with various reference numerals: 20, 21, 22, 23, 24, 25, 26, 27, 28a, 28b, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

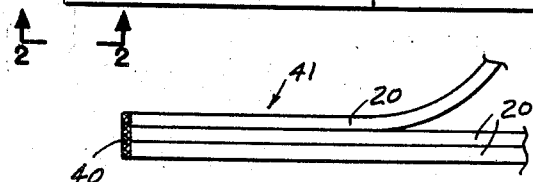


FIG. 1

FIG. 2

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4 Sheets-Sheet 2

FIG. 3

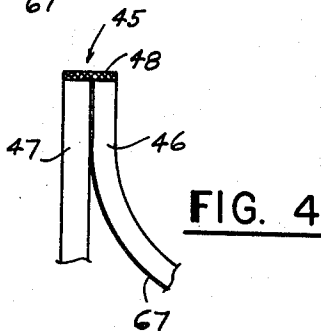


FIG. 4

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3,170,719

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4 Sheets-Sheet 3

FIG. 5

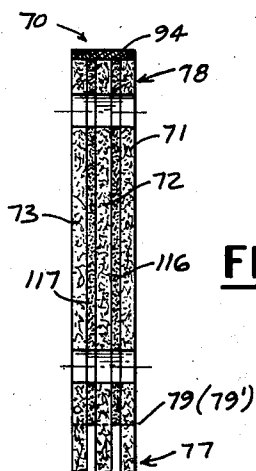


FIG. 6

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BOWLING SCORE SHEETS

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4 Sheets-Sheet 4

[illegible]

FIG. 8

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1

3,170,719

BOWLING SCORE SHEETS

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2 Claims. (Cl. 282—23)

This invention relates to novel bowling score sheets.

It has been the prior bowling practice for the participants to receive a single score sheet when assigned to a designated bowling lane for play or to utilize a single score sheet available at the lane. In almost all cases, however, after finishing with the use of the lane, the bowling establishment takes up the score sheet for their own purposes, as for example, to have a record for accounting purposes and to prevent misappropriation of receipts by employees. Thus, no provision is made for the participants to have a record of their score under their practice, either to exhibit to others for recognition or to retain as a continuing performance record.

Much the same practice is prevalent also in league competition and the teams have to score and tabulate team performance record themselves, and to provide duplicate copies thereof for the individual teams and for the league secretary. Accordingly, additional time and effort is required presently to copy scores from the bowling sheet provided during the bowling in event into a suitable form for use in the league and to provide copies thereof.

Additionally, under the present practice the bowling establishment rarely obtains the full name and address of the participants, but merely a name, nickname, or an identifying initial since people are generally reluctant to disclose such information without good cause. Thus, mailing lists are not readily compiled for use by the bowling establishment for promotional purposes in order to generate public interest and participation.

Moreover, under the present expansion of bowling centers into large arenas with one or more floors having as many as 50 lanes per floor there is a great need to prevent the misappropriation of revenue by personnel and to have available a running record of the lanes in use so that waiting parties can be scheduled for play.

The present invention provides an improvement in bowling score sheets and overcomes the disadvantages inherent in the present practice.

In accordance with one exemplary embodiment of the invention there is provided a bowling score sheet with severable portions for the use of both the participant(s) and the bowling establishment.

To this end, the score sheet is divided into two incremental scoring sections, which are spaced from one another, and severable from one another along a perforation line or scored line. A plurality of games are recordable in each of the sections.

Marginal areas are provided adjacent to each of the two incremental scoring sections for printed matter, such as advertisements, operating instructions, and records useful to the bowling establishment. Perforations are provided for severing each of these areas from each of the incremental scoring sections.

Moreover, there is provided perforations for severing the section of the score sheet wherein the name and address of the participant(s) are recordable adjacent to each playing line from each of the incremental scoring sections; and if the scoring sheets are bound together as a pad these sections can be retained in the pad for future use as mailing lists. Thus, the portion of the score sheet wherein the incremental and total scores are recorded is severable from the remainder of the sheet.

Another features of the invention provides for enhancing the enjoyment of the participant(s) by enabling them to remove each of their incrementally scored games from

2

the scoring sheet or from one or more of the incremental scoring sections thereof. Thus, scored games can be retained to the use(s) of the participant(s), such as for exhibiting to others or for compiling a performance record.

In another exemplary embodiment of the invention, a bowling score sheet is provided as a bound set including an original sheet and at least one copy sheet. Writing made on the original sheet is adapted to be duplicated on the copy sheet(s).

In this embodiment, one incremental scoring section is provided on the original sheet for a plurality of games and severable marginal areas are provided adjacent to the ends of the scoring section for printed matter, or the like, portions of which are adapted to be used by both the participant(s) and the bowling establishment.

As in the previous embodiment, the marginal areas of the original sheet are severable from the incremental scoring and total section thereof along perforation lines. However, the incremental scoring and total portion of the section is perforated so that each of the plurality of scored games recordable thereon is severable from the remainder of the sheet for the use of the participant(s). The copy sheet(s) is provided, on the other hand, solely for the use of the bowling establishment, and are permanent records of all games played in each lane. Accordingly, the name and address of each participant can be used for promotional purposes. If contests are conducted based upon scores, the copy sheet can be used to check the validity of the scores. Additionally, the copy sheets can be used to check revenue received against games played or games played per lane in order to prevent misappropriation of funds by personnel of the bowling establishment.

In still another exemplary embodiment of the invention, a bowling score sheet is provided for the use of league competition or bowling.

In this embodiment, a bound set is provided with a plurality of identical scoring sheets for the scoring of the entire contest. Thus, the number of scoring sheets in the bound set is selected to correspond with the number of games that constitute the contest between the teams.

Each scoring sheet consists of an incremental scoring section for team participants, which is further subdivided for use by the individual teams, and a cumulative scoring section for the entire bowling event.

Writing made on one cumulative scoring section is adapted to be duplicated on the other like sections comprising the bound set so that when the cumulative team scores are compiled a plurality of copies are available for distribution, for example, to the captains of each of the teams and to the league secretary. Moreover, those sections are adapted to be the final record of the entire contest and binding openings are provided for including the cumulative scoring sections in a suitable binder.

In a similar manner, the incremental scoring section is adapted to be severed from the cumulative scoring section along a perforation line therebetween and the incremental scoring section is adapted to be severable from printed matter provided thereon in adjacent marginal areas.

Also, a portion of the marginal area is adapted to be severed along a perforation line for the use of the bowling establishment, for example, to have a record of the lanes in use and to compute revenue due for games played.

A portion of each of the incremental scoring sections is severable from the section thereof provided for recording the identity of the participants and from the cumulative scoring section thereof along perforation lines in order to facilitate the scoring of the event, and for other purposes to become apparent subsequently.

3

Thus, when a game in the contest is completed, the severable portion of the incremental scoring sheet can be removed, leaving the section wherein the identity of the participants is recorded, and exposing for the next game the underlying severable incremental scoring sheet.

Total scores, individual scores, and the like, obtainable from the severed incremental scoring sheet can be recorded in the cumulative section of the first sheet of the bound set, while the event is in progress, or thereafter, so that upon completion of the event copies of the cumulative scores are available for distribution.

In a like manner, the team scores on the severed incremental scoring portions are severable from one another along a perforation line; and the individual participant scores are severable therefrom, if desirable, for the use of the participant(s) or the team.

The features and objects of the invention will be understood more fully from the following detailed description when taken together with the drawings, wherein:

FIG. 1 is an exemplary embodiment of the bowling score sheet of the invention illustrating the format of the sheet and the severable portions thereof;

FIG. 2 is a side view taken along the line 2—2 in FIG. 1 illustrating the manner in which the sheets may be bound together;

FIG. 3 is an exemplary embodiment of another bowling score sheet of the invention comprising a bound set including an original sheet and a copy sheet and the severable portions of the original sheet;

FIG. 4 is a side view taken along the line 4—4 in FIG. 3 illustrating the manner in which these sheets are bound together;

FIG. 5 is an exemplary embodiment of another bowling score sheet of the invention comprising a bound set suited for league competition and the severable portions thereof;

FIG. 6 is a side view taken along the line 6—6 in FIG. 5 illustrating the manner in which these sheets are bound together and the duplicating means between the cumulative scoring sections thereof;

FIG. 7 depicts the cumulative scoring section of the sheets shown in FIGS. 5 and 6; and

FIG. 8 depicts the manner in which the cumulative scoring section can be folded for binding them.

Referring now to FIGS. 1 and 2, there is shown an exemplary embodiment of the bowling score sheet 20 made in accordance with the invention, which is adapted to be used by both the participant(s) and the bowling establishment.

The score sheet is about 12-inches wide and 15-inches high. The usable portions of the score sheet are spaced from the ends of the sheet by vertical and horizontal printed lines 21 and 22 which define a border to enhance the appearance of the sheet.

Adjacent the top and bottom borders horizontal areas 23 and 24 are provided for printed matter, to be described more fully subsequently, by horizontal printed lines 25.

In the area between the top and bottom horizontal areas 23 and 24 and spaced from one another by another horizontal area defined by horizontal printed lines 25a, two incremental scoring and total sections 26 and 27 are provided, each of which accommodates 7 games or lines. Since both incremental scoring and total sections are identical, the format of the section 26 is set forth with particularity and will apply to the other section 27 with the exception of the numbers that identify the games therein.

In accordance with the scoring of a bowling game and to provide space for recording 7 games, a plurality of equally spaced horizontal printed lines 25b are provided between the marginal lines. Suitably spaced boxes are formed in each of the horizontal areas formed thereby by spaced apart vertical printed lines 28. Thus, a row of boxes 29 is provided for printed numbers to identify each of the games. A larger row of boxes 30 is provided by lines 28 and 28a for recording the name and address of

4

the participant(s). The words Name and Address are printed therein to facilitate the recording of such data. And adjacent thereto 10 rows of boxes 31 are provided by lines 28b for recording incremental scores in the 10 frames that constitute a game and row of total score boxes 32 is provided adjacent the last frame. Accordingly, the incremental scoring and total section 26 consists of a plurality of horizontal areas subdivided into a plurality of vertically aligned boxes.

In a small horizontal space between horizontal lines 25 and 25b and divided by vertical lines 28, 28a and 28b the words Print Name and Address, numbers 1 through 10, and Total are printed to identify the various columns.

Each frame box includes further two smaller boxes 33 and 34 at the top thereof for recording the score achieved by each ball played, or alternatively, the symbols usually used for strikes and spares. And each total box includes two smaller boxes 35 and 36 at the top thereof for recording strikes or spares obtained in the last frame and a handicap figure assigned to the participant, which is to be used in tabulating total score. The word HANDICAP is printed in the boxes 36.

The top horizontal area 23 is divided into three sections 23a, 23b and 23c by vertical printed lines 28a and 37. The sections 23a and 23c are intended to be used by the bowling establishment. To this end, the section 23c includes a horizontal printed line for further dividing the section. A bowling sheet number is printed therein for identifying the sheet in order to keep track of the outstanding sheets subsequently and the word LANE is printed therein above a perforated section 38.

The section 23a is further divided also into a plurality of boxes by vertical and horizontal printed lines for filling-in appropriate data. In one vertical row of boxes the bowling sheet number is repeated and space is provided for recording the lane number. An intermediate row of boxes is provided for recording values for meter stop, meter start, and cycles forthcoming from automatic pinsetter devices. The words Meter Stop, Start, and Cycles are printed for recording such data. And another box is provided for recording games played so that a record is provided for billing the participant(s) and checking revenue received against meter readings of the pinsetter devices.

The section 23b contains, for example, printed matter directed to the participant(s) advising him of how to use the reset button of the automatic pinsetter device. Naturally, other printed data could be used in place of such instructions.

The horizontal marginal areas 15 and 24 are divisible likewise into sections by vertical printed lines 15a, 24a and 24b, respectively. Advertisements, promotional premiums or coupons, or the like, can be printed therein. In this way, the bowling establishment can generate public interest and participation in its programs, and similarly, advertisers can reach the users of the sheets, and can themselves promote give-away contests and trial offers through this medium.

A plurality of perforation lines are incorporated into the bowling score sheet to enhance its usefulness to both the bowling establishment and to the participant(s). The perforated lines are identified by prime (') numbers and dashes.

A vertical perforation line 28a' in registry with the vertical printed line 28a extends across the entire sheet for severing the incremental scoring and total portions 26 and 27 from the remainder of the sheet. Horizontal perforation lines 25' in registry with the horizontal printed lines 25 at the top and bottom of the sections 26 and 27, respectively, are provided for severing the sections 26 and 27 from its adjacent marginal areas 23 and 24. Similarly, horizontal perforation lines 25a' are provided in registry with horizontal printed lines 25a for severing each of the incremental scoring portions from the adjacent marginal area 15.

Additionally, to provide something in the way of recognition to the participant, a plurality of horizontal perforation lines 25b', extending between the right-hand edge of the sheet and the vertical perforation line 28a', and in registry with the horizontal printed lines 25b defining the 7 scoring areas, are provided for severing each of the horizontal scoring areas or strips from the incremental scoring and total portions 26 and 27. Thus, the participant can remove a strip with his score or scores thereon.

Accordingly, the incremental scoring and total score sections 26 and 27 are severable from the original sheet 20 along the perforation lines 25' and 28a'. The top marginal area 23 and the bottom marginal area 24 are severable from the original sheet 20 along the perforation lines 25'. And the intermediate marginal area 15 is severable from each of the sections 26 and 27 along the perforation lines 25a'. Additionally, in keeping with the use of the original sheet 20, the portion thereof which is severable along the perforation line 28a' is intended to be retained by the bowling establishment as a mailing or promotional list, while the sections 26 and 27 or the strips thereof which are severable along the perforation lines 25b' are intended to be given to the participant(s).

Turning now to the top marginal area 23, the section 23c is severable along a perforation line 37' extending from the edge of the sheet and in registry with the vertical printed line 37. The perforation area 38 therein is intended to be opened so that the section can be placed over the top of a switch or button, which is operable to turn on or off the automatic pinsetter device of a particular lane so that the outstanding sheets in use in the bowling center can be correlated with particular lanes, whereby, for example, the cashier can assign new parties to lanes after parties who have finished playing pay their bill.

The section 23a is severable from the marginal area 23 along a portion of perforation lines 28a' and 25. Since the number of games played is recordable in this section, the section can be used as a bill when the participant presents the scored sheet to the cashier for settling his account, and the sections 23a can be retained by the bowling establishment as a record of revenue received.

Perforation line 15a' is provided for severing the sections of the intermediate marginal area 15; and perforation lines 24a' and 24b' are used to separate the bottom marginal area. For example, a section of the intermediate area 15 can be an advertisement entitling the bearer thereof to a sample of the advertiser's product. A section of the bottom area 24 can be a coupon entitling the bearer to submit a strip with his high score for a drawing contest in return for furnishing his name and address. In this manner, the inducement of an award will prompt participants to leave such information to the use of the bowling establishment.

In operation, a plurality of score sheets 20 are conveniently bound in a pad 41 along an edge 40 thereof, as shown in FIG. 2, and the score sheets provide severable portions thereof for the use, benefit, and enjoyment, as the case may be, of both the bowling establishment and the participant(s).

For example, the operator of the bowling establishment can institute a system, whereby the participant(s) is given a sheet at the time he is assigned to a lane, or subsequently, if more than one sheet is required for the bowling event. Each time a sheet is given out, the section 23c thereof is severed and placed on the switch which activates the automatic pinsetter for the lane. Thus, the operator or his agent can ascertain the quantity of sheets given to the participant(s) so that revenue cannot be withheld for games played on each distributed sheet, i.e., each participant is responsible for the scored games on each sheet.

Additionally, the meter start reading can be recorded in the fill-in space in the section 23a so that when the participant(s) are finished playing, the number of games played can be computed by recording the meter stop read-

ing, which meters normally are located at a central area in the bowling center, as at the cashier's desk.

Also, as part of the system, the cashier can be required to sever the sheet along the perforation line 28a' and to stamp the portion 23a as paid by inserting it into a cash register which prints such sums; and the sections 26 and 27 can be given to the participants at this time, while the remainder of the sheet can be retained. Thus, the sections 23a can be used as a record for checking revenue received against recorded games, thus preventing the misappropriation of funds by the cashier, and the portion thereof on which the names and addresses of the participants can be saved for mailing and/or promotional purposes.

Additionally, if conditions warrant it, the incremental score and total portions of the sheet can be severed from a pad of sheets provided at the lane, when the participants finish playing, so that the names and addresses of the participants remain bound in the pad for the use of the bowling establishment.

It will be apparent from the aforementioned use of the score sheets that many systems can be instituted to utilize the novel severable score sheets of the present invention without departing from the principles of the invention.

In FIGS. 3 and 4 there is shown another exemplary embodiment of a bowling score sheet made in accordance with the invention which is suited for different uses than the aforementioned bowling sheet.

A bound set 45 comprising an original sheet 46 and at least one copy sheet 47 forms the score sheet. The sheets 46 and 47 are bound together along an edge 48 thereof. A plurality of bound sets 45 bound in a pad also are contemplated.

The original and copy sheets 46 and 47 are substantially identical in format for recording incremental and total scores during each of a plurality of bowling games, but there are differences which will be described subsequently.

In a manner similar to that described for the sheet 20, the original sheet 46 includes a plurality of horizontal printed lines 49 dividing the sheet into 14 consecutive games or lines, with top and bottom marginal areas 50 and 51 adjacent thereto. Similarly, a plurality of vertical printed lines 52 define a row of boxes 53 for identifying each of the games with a printed number, an adjacent row of boxes 54 for recording the identity of the participant(s), 10 adjacent rows of boxes 55 for recording incremental scores for the ten frames that constitute a bowling game, and an adjacent row of boxes 56 for recording total scores.

Additionally, a horizontal perforation line 49', extending across the sheet between the top marginal area 50 and the incremental and scoring portion 57 of the sheet, and in registry with the line 49 is provided for severing the marginal area 50 therefrom, or vice versa. Another horizontal perforation line 49' is provided also between the bottom marginal area 51 and the incremental scoring and total portion of the sheet for severing the bottom marginal area 51.

The top marginal area likewise includes a plurality of sections 59, 60 and 61, severable along the perforation line 52' and a perforation line 62', both of which terminate at line 49'. The section 60 is provided for printed instructions like the section 23b in FIG. 1. The section 59 is provided for the use of the bowling establishment and includes identifying printing and fill-in spaces for recording meter readings of the automatic pinsetter device, sheet number, lane number, and lineage (games played) for the purposes given previously.

The section 61 thereof includes identifying printing for sheet number and an opening 63 for hanging the section on a spindle. Thus, the section 61 is intended to be used by the bowling establishment for identifying the particular lanes in use and the sheets used at the lanes.

The bottom marginal area likewise includes severable

sections 64, 65, and 66 which may contain printed advertisements, premiums, and coupons.

Within the incremental scoring and total portion of the sheet, each of the horizontal lines 49 of the incremental scoring and total portion 57 includes a perforation line 49' in registry therewith, which extends between the edges of the sheet for severing strips with recorded scores thereon.

In connection with the use of the original sheet as a promotional or advertising medium by the bowling establishment, and particularly in connection with a giveaway contest, or the like, such as the one described previously, whereby the participant(s) submits his score on one or more of the removable strips of the incremental scoring section, the copy sheet 47 is provided. And since a copy sheet is provided, scored games are severable along the perforation lines 49' and are removable with a portion of the section 54 wherein the name and address of the participants are recorded.

To this end, the original sheet 46 is chemically treated on a reverse side 67 thereof to transfer writing thereon onto the copy sheet. In lieu thereof, a carbon sheet (not shown) can be disposed between the original and copy sheets. Thus, the copy sheet 47 is a permanent record of the bowling events recorded thereon for the use of the bowling establishment; and a pad of such bound sets 45 can be utilized in such a manner that only the original sheets are removed therefrom, whereby the copy sheet remains bound in the pad for later use, as for example, to verify the scores of participant(s) submitting removable portions in connection with a contest, or as a mailing list.

Also, each copy sheet 47 also is numbered and corresponds to an original sheet so that the copy sheets can be used to verify both the use of an original sheet 46 and the revenue due thereon so that misappropriation of funds is prevented.

Thus, a bound set 45 can be given to each participant assigned to a lane, at which time the section 61 is removed from the original sheet along the perforation line 62' and a portion of line 49', like the section 23c described previously.

When the participant(s) finish playing, the section 59 can be stamped in some manner to signify payment, and thereafter, the section can be severed from the sheet 46 and the incremental scoring and total portion 57 can be given to the participants, since the copy sheet 47 can be retained by the bowling establishment.

Accordingly, the bowling establishment can prevent participants from failing to pay for games played and personnel from misappropriating funds, and simultaneously, the severable portions of the bound set are available as permanent records for the accounting system of the bowling establishment.

FIGS. 5-8 illustrate another exemplary embodiment of the invention involving a severable score sheet for league competition.

In this regard, there is provided a bound set 70 comprising three sheets, 71, 72, and 73, which in the sense used herein are original sheets rather than copy sheets, but two of the sheets include portions which are copy sheets, as will be described subsequently.

Except for differences to be noted later, the three sheets 71, 72 and 73 are identical in format, and therefore, only the description of the sheet 71 is set forth, but the description will apply likewise to the other sheets.

The sheet 71 is about 17-inches wide and 17-inches high. Vertical and horizontal printed lines 74 and 75 define a peripheral border to have an orderly looking arrangement.

The sheet 71 is divided into two scoring sections 77 and 78, one for incremental and total scores of the participants, and the other for cumulative team scores, respectively. The incremental scoring and total section 77 covers about $\frac{1}{2}$ of the sheet and will be described first.

A horizontal printed line 79 extends across the sheet between the margin lines 74 and separates the two scoring sections 77 and 78. Spaced from the line 79 another horizontal printed line 80 extends across the sheet from the left-hand margin line 74 and terminates at a vertical printed line 81. Another vertical printed line 81a spaced from the line 81 forms a vertical column 91 for recording incremental and cumulative team scores and the horizontal line 80 continues from the line 81a. The horizontal lines 79 and 80 define a marginal area 83 between the scoring sections 77 and 78.

A horizontal printed line 80a extends across the sheet and spaced from the line 80 for defining a horizontal area for identifying printing to be described subsequently. A plurality of spaced horizontal printed lines 84 extend across the sheet and define 14 spaces, 6 spaces on either side of an intermediate marginal area 82 being provided for the scoring of each team.

A vertical printed line 69 extends from the horizontal line 80a through the first six horizontal spaces and through the eighth and thirteenth spaces defining a row of boxes 85 for printed numbers to designate each of the games that can be scored.

A plurality of vertical lines 86 are provided and extend from the horizontal line 80 through the first 13 lines for defining a row of boxes 87 for the name and address of the participant(s) and the ten frames that constitute the game. The fourteenth horizontal area is used as a marginal area for advertisements and the like.

Vertical printed lines 88 adjacent to the vertical line 81a defines two adjacent rows of boxes 89 and 90 for recording total scores of the participants, as distinguished from team scores, based upon their handicap values.

A horizontal printed line divides the top of the row of boxes 91 for total score into two spaces, the identity of the boxes being given by the printed word Total, and space being provided in an adjacent box designated by the word Handicap for the value assigned to one of the teams.

The word Name, the numbers 1 through 10, and the words Handicap and Total are printed between horizontal lines 80 and 80a to identify the corresponding rows of boxes. A space is provided above the words Handicap and Total in the row of boxes 89 and 90 for total participant scores or for printed matter, such as copyright or trademark registration.

A vertical printed line is provided in the marginal area 83 between the two sections 77 and 78 for dividing the area into two adjacent sections 83a and 83b, which can have printed material therein, such as advertisements and premiums.

Additionally, the seventh horizontal space has the words Mark Column printed therein and an intersecting horizontal and a vertical printed line therein which define two adjacent horizontal boxes. The word Plus is printed in the top box. Over in the row of total boxes 91, the word Total is printed in the sixth horizontal space to identify the space for recording total team score for the users of the top section of the sheet. The word Handicap is printed in the seventh horizontal space to identify further the column 91 for the users of the bottom portion of the sheet and the word Total is printed in the twelfth horizontal space for recording total team score.

A plurality of diagonal printed lines 93 extend through the ten consecutive boxes of the ten frames in the mark column to divide the boxes for the use of both teams. Thus, there is provided upper and lower spaces for recording for each frame the incremental difference in score between the two teams so that the participants will be apprised of their team standing as the game progresses.

The sheets 71, 72, and 73 of this bound set are bound together along the top edges 94 of the sheets so that the cumulative team scoring sections 78 remain bound to-

gether when the incremental scoring section 77 is severed therefrom in the manner to be described subsequently.

Additionally, this arrangement is advantageous for holding two sheets of carbon paper, or the like, in place for duplicating writing made on a first sheet on the remaining two sheets of the bound set.

As shown best in FIG. 7, the cumulative scoring section 78 comprises four sections 96, 97, 98, and 99 defined by vertical printed lines 100, 101, and 102 which divide the area. Two innermost sections 97 and 98 are provided for recording the total score of each participant for each of the teams, respectively. Suitable horizontal and vertical printed lines 103 and 104, respectively, define six vertical columns for recording the name of each team participant, the total score for each participant for each of three games, the series score for each participant and the team, and the average of each participant for the three games or the handicap of each participant, which is utilized in some league scoring. The words Name, 1st, 2nd, 3rd, Series, Avr. or Hdcp and Subtotal are printed in the sections for identifying the columns and filling-in data.

Adjacent to each of these sections, another section 96 and 99, respectively, is provided for composite team scores. Suitable vertical and horizontal printed lines 106 and 107, respectively, are provided therein to define spaces for recording the subtotal and grand total team scores for each of three games and a fourth space is provided for the grand total team score. The words 1st, 2nd, 3rd and Total are printed in a space above four columns and the words Subtotal and Grand Total are printed in a vertical row for identifying the columns and filling-in data.

Additionally, four boxes 109, 110, 111, and 112 are provided in a horizontal space underneath the 1st, 2nd, 3rd, and Total columns for marking games won and lost. The words Won and Lost are printed to identify these boxes. Two horizontal areas 113 and 114 are provided below the boxes 109-112. The area 113 is provided for the name of the participant obtaining the highest score and the area 114 is provided for the signature of the team captain for verifying the tabulated scores recorded in the cumulative scoring section 78.

The words Team and Lane are printed on a top line of the sections 96 and 99 for filling-in the corresponding data. The words League and Date are printed on a top line across the sections 97 and 98 for filling-in such data.

The cumulative team scoring section 78 described previously and shown in FIG. 7 includes, for the most part, fill-in spaces for tabulating and recording all of the data normally used in league competition. Consequently, during or after the bowling event, entries can be made into the cumulative scoring section 78 from the total scores compiled in the incremental scoring section 77 so that much time and effort is saved in transposing such data at the end of the bowling event as is the customary practice. Moreover, the improvement of the bowling score sheets of the invention is forthcoming from other features set forth subsequently.

In keeping with the usual practice of league competition and the maintenance of records of bowling contests, two carbon sheets 116 and 117 are interleaved between the first and second and second and third sheets and bound together therewith so that entries made on the first sheet are duplicated. Thus, when the cumulative scoring section has been completed, three copies are available for distribution to the respective teams and the league secretary, which is required normally in league competition.

Additionally, if the bound sets are compiled in a pad, a separator sheet (not shown) can be used between each set to prevent writing made on one sheet from being duplicated on succeeding sheets not a part of the bound set being used.

A horizontal perforation line 79', extending between

the edges of each of the sheets, and in registry with the horizontal line 79, is provided for severing the cumulative scoring sections 78 from the rest of the sheet, i.e., the marginal area 83. Similarly, a horizontal perforation line 80', extending between the edges of the sheets, and in registry with the broken line 80, is provided for severing the incremental and total score section 77 from the marginal area 83. However, in order to eliminate the need for rewriting the names of the participants, and in keeping with the use of the cumulative scoring section 78 during the entire contest, a vertical perforation line 86', extending between the perforated line 80' and the bottom edge of the sheets and in registry with the vertical line 86, is provided. Accordingly, after each of the first and second games are completed, the portion of the incremental section which have been used can be severed from the remainder of the sheet along the perforation line 80' and 86', thus, exposing the next sheet for scoring while the identity of the participants remains adjacent thereto on the portion of the sheet with columns 85 and 87.

Additionally, horizontal perforation lines 84', extending between the right-hand edge of each sheet and vertical perforation line 86', and in registry with each of the horizontal lines 84 defining the scoring areas, are provided for either separating the participant's scores individually or as a unit.

The fourteenth horizontal area 121, which is the bottom marginal area, includes three sections 121a, 121b, and 121c separated by vertical printed lines 122 and 123. Sections 121b and 121c can contain printed matter, such as premiums and advertisements for the purposes set forth previously. The section 121a, on the other hand, is intended to be used by the bowling establishment like the sections 23a and 59 and identifying printing is included therein for recording sheet number, lane, readings of the automatic pinsetter device, and games played for revenue and checking purposes. Perforation lines 86' and 123' are provided in registry with the vertical lines 122 and 123 for severing each of the sections.

To facilitate the use of the cumulative scoring section as a permanent record of the contest or bowling event, binding openings 125 are provided in a margin thereof; and since these sections are considerably wide, the reverse side 127 thereof has a fold line 126 therein for folding the section. Identifying printing and fill-in spaces are provided on the reverse side 127 for summarizing the results of recorded contests, as shown in FIG. 8. The word League is printed at the top of the sheet. The word Date is printed at the side thereof; and two columns are provided with the words Team, Won, Lost and Lane with the word Versus therebetween.

In operation, each team is given a bound set 70, having sheets 71, 72, and 73 therein, and the bowling establishment retains the sections 121a thereof for checking subsequently the games played and revenue received.

As the contest progresses, the difference in team score can be recorded incrementally in the Mark Column area 82. After the first game is played by each participant, team totals can be tabulated in the column 91, and if desired, separate totals for each of the participants can be recorded in the column 90, based upon the handicap values assigned to the teams and to the participant.

During or after the subsequent games, the tabulated results in the incremental scoring and total portion 77, can be transposed into the columns of the sections 97 and 98 of the cumulative scoring section 78. When the three games are completed, the results may be tabulated therein and transposed into the sections 96 and 99 for the separate teams. Copies of the cumulative scoring sections 78 can be distributed to the team captains and league secretary after they have been checked and verified by the signatures of the team captains.

Accordingly, the league bowling sheets, like the afore-

mentioned score sheets, provide severable portions advantageously used by both the bowling establishment and the participants.

Having described several exemplary embodiments of the invention, I desire that the scope of the invention not be limited thereto since changes, modifications and alternate uses of the severable sections will suggest themselves to persons skilled in the art, without departing from the scope of the invention. Therefore, the invention is intended to encompass all modifications thereof coming within the scope of the appended claims.

What is claimed is:

1. A score sheet for bowling events including a horizontal perforation line in the sheet for separating the sheet into two parts, a first part including a plurality of adjacent rows of horizontal areas divided into a plurality of adjacent rows of boxes, the boxes in each of the horizontal areas being in alignment vertically with the boxes in an adjacent horizontal area, ten of the plurality of adjacent boxes in each of the horizontal areas corresponding to the frames constituting a bowling game, one of said plurality of boxes adjacent to one side of the ten boxes in each of said horizontal areas being provided for recording total score, another of the plurality of boxes adjacent to another side of the ten boxes in each of the horizontal areas being provided for recording the identity of the participants scoring in the horizontal area, the ten boxes and the one box in each of the horizontal areas constituting an incremental and total score portion of the sheet, at least one vertical perforation line in the sheet adjacent to the incremental scoring and total portion thereof and terminating at the horizontal perforation line for severing said portion from the first part of the sheet, horizontal perforation lines in said portion between adjacent horizontal rows for separating a horizontal strip thereof containing boxes with incremental and total scores, the second part including at least one section having horizontal areas vertically divided into a plurality of aligned boxes for recording total scores recorded in the first part for a

plurality if scored games on the first part and for recording composite results of the bowling event, and at least one vertical perforation line in said second part for separating two areas thereof.

2. A score pad for scoring a league bowling event, said score pad comprising a plurality of superimposed score sheets, each of said sheets including horizontal perforation lines for dividing the sheet in a first, a second and a third part, the first part including a plurality of horizontal perforation lines dividing said first part into a plurality of severable strips, each of said strips being divided by printed vertical lines into ten boxes for recording the ten frames of a game, a first further box on one side of said ten boxes for recording the identification of a bowler of the teams, and a second further box on the other side of the ten boxes for recording the total score of the respective bowler, said first part further including vertical perforation lines for severing said first and second further boxes from said strips of ten boxes, said second part being divided by vertical printed lines in four boxes for recording therein identifications of the bowlers of the teams, the total scores and other pertinent data and including a vertical perforation line for severing said second part into two pairs of two boxes, one pair for each team, and said third part being divided by vertical perforation lines into several severable portions for entering data pertinent to the bowling establishment and for printed advertising matter, and transfer means interposed between the second parts of each two of said sheets to transfer records entered on the second part of the top sheet of said plurality of sheets to the second parts of the sheets therebeneath.

References Cited in the file of this patent

UNITED STATES PATENTS

1,318,163	Lubin	Oct. 7, 1919
2,262,277	Godley	Nov. 11, 1941
2,262,296	Oettinger	Nov. 11, 1941
2,625,408	Hirsch	Jan. 13, 1953
2,869,898	Martin	Jan. 20, 1959