This invention is directed to a device wherein representative scoring of certain well known competitive games is produced peroid by period through mechanism working in accordance with the element of pure chance. Comparative scores between pairs of teams are registered successively in accordance with the system of periods employed in a designated game. Successive scores for the teams in different periods are registered at the end of selected time intervals, and the totals obtained for all the periods represent the final score between the teams.

The scoring between supposed teams in baseball, football, and other competitive games in the field of sports may be automatically registered peroid by period. The length of time between the registering of the scores for the different periods may be controlled at will, but the scoring itself will be produced automatically according to chance. The scores registered can not be predicted or controlled, and the same will be entirely different for each game scored by the machine.

The embodiment of the invention illustrated is intended to simulate the scoring in baseball games, and as will be evident from Fig. 1 a plurality of games between different pairs of teams may be played simultaneously. In the simplest form of device, of course, the scoring of a single game between two teams will be registered and the device may be made very much smaller in size.

The indicia bearing members comprise a plurality of bands 16, one band for each inning of a baseball game, and each band bearing a series of indicia adapted to give the score of each pair of teams for one inning. The indicia, as will be seen in Fig. 1, represents the approximate range of runs which might normally be obtained by the team in a single inning of a baseball game, and such numbers are arranged in a haphazard order rather than in a regular sequence, so as to enhance the element of chance and make it entirely impossible to accurately forecast scores.

The endless bands 16 are carried around lower sets of pulley drums 14 and upper sets of pulley drums 12, respectively supported by a lower drive shaft 13 and an upper shaft 14 carried by suitable journals in the supporting frame generally designated by numeral 15.

With the vertical arrangement of the different indicia bearing members 16, as described, it will be understood that the numbers registered in horizontal lines will represent successive innings of a game, while the scores in the vertical columns correspond to the different teams.

The bands are driven by an electric motor 16 through a reduction gear 17 and drive shaft 13, as best shown in Fig. 2. By reference to Fig. 3 it will be observed that the lower pulley drums 11 are frictionally clutched to drive shaft 13. For this purpose small leather or rubber discs 18 are suitably secured, as by pins, to the shaft and adapted to frictionally engage the side of the drum. At the second end of the drum is a free metal washer 19 which through spring 20 urges the drum against the disc 18. Normally the drums 11 will rotate with drive shaft 13, but through the use of suitable braking means hereafter referred to the indicia bearing bands and pulley drums 11 can be stopped, the springs 22 being weak enough to allow slippage between the drums and the clutch disc 18. It will be understood that the pulley drums 11 for the individual bands are independently clutched to the drive shaft so that one may be stopped while another is still rotating. For the latter reason, also, the upper pulley drums 12 must be capable of rota-
tion independently of each other and they are each therefore supported for rotation independently of the shaft 14, being merely held in proper position through suitable means such as cotter pins on each side thereof with metal washers 21 interposed between the pins and the sides of the drums.

Control mechanism is provided to stop each of the bands independently of the others. Simple forms of brakes may be provided such, for example, as represented in Fig. 3. Therefore a pivot rod 22 is provided to adapt a supporting rod 23 extending horizontally of the machine. In such position arm 22 engages one of a series of stops 24 carried on the outer side of the indicia bearing band 10. A magnetic control 25 operates a latch 26 to release arm 22, which on dropping engages one of the stops 24. The band is immediately stopped as the pulley drum 11 is released through its clutch from drive shaft 13. There will be a stop 24 on the bands corresponding to each of the indicia, and the arrangement is such that the band will stop in a position to register simultaneously the scores for a particular inning for each team.

It will be understood that there is a separate braking mechanism as just described for each of the bands, and the same may be supported on a common beam 27 extending horizontally of the machine between the opposite reaches of the various bands. Conventional time-controlled mechanism will preferably be utilized to operate the stopping mechanism of each of the bands, and in such event the operation of the machine will be entirely automatic. If the control for the different bands was manual, it might be possible to predetermine the position in which a particular band would stop, and the element of chance would therefore be partially destroyed. In Fig. 6 I have indicated diagrammatically a time mechanism 28, preferably taking the form of an electric clock. The contact arm 29 will be swung over a series of contacts 30 connecting with the various magnets 25 of the braking mechanism for the individual bands. The different bands will be stopped one after another at suitable time intervals. For example, contact arm 29 may correspond to a time of the hour hand of a clock. By proper arrangement between the different contacts 30, the lapse of time representing the time for a period of a game can be determined. In the particular arrangement shown in Fig. 6 the contact arm 29 will engage successive contacts 30 at fifteen minute intervals, which period represents the average time for an inning in an actual baseball game. It will be understood, however, that the contacts may be more closely spaced so that periods may be made shorter. By utilizing a shaft of the time clock which normally operates the minute hand, the period corresponding to each inning may be, if desired, reduced down as low as a minute.

Assuming that the device as described is set into operation through starting of the electric motor 16, all of the indicia bearing bands 10 will revolve simultaneously. After the lapse of a period representing the first inning of a game, the time clock 28 will move arm 29 corresponding to the first contact 30, energizing the magnet of the band 10. Such band will stop and the score of each team for the first inning will be registered. The other bands will continue to revolve and will be stopped at successive intervals corresponding to the remaining innings as the contact arm is moved by the clock to complete the circuits of the brake magnets for each succeeding band.

It will be noted that while a baseball game has only nine innings, a tenth band is provided so that in the event of a tie operation of the machine may be continued for an extra inning.

The apparatus will preferably be provided with a front panel 31 having a series of windows 32 arranged in horizontal rows and columns through which the scores for the different teams in each successive inning will be registered. As previously mentioned, the embodiment of the invention shown is intended to allow a plurality, specifically eight, games to be played simultaneously. The team names may, if desired, be printed on removable cards 33 supported by suitable fasteners 34 on the front panel 31. Such arrangement enables the playing of games between any pairs of teams desired merely by re-arranging the cards in the column.

It will always be possible to determine in what stage a game is inasmuch as the indicia bearing members for the unplayed innings continue to rotate until the particular innings are completed. After the game has been completed the scores for each team for each inning may be added up and inscribed in the frames at the right hand end of the panel.

It will be appreciated that the form, position and detailed construction of the various operating parts may be varied considerably from the showing of the illustrative embodiment of the invention, and we intend that the invention shall be protected against modification and equivalency within the scope of the appended claims.

We claim:

1. An amusement apparatus comprising a plurality of movable members bearing score-indicating indicia, means for imparting simultaneous movement to all of said members, and means for successively arresting the movement of the respective members at definite predetermined intervals and in such manner that said indicia are displayed in predetermined positions.

2. An amusement device comprising power-operated driving means, a plurality of rotatably mounted means for imparting simultaneous movement to all of said members, and said indicia bearing members being simultaneously rotatable by said driving means but said driving means being capable of being stopped independently by said respective members, and stop means for individually arresting rotation of the respective indicia-bearing members one after another in predetermined order at definitely measured intervals and in such manner that said indicia are displayed in predetermined positions successively.

3. An amusement apparatus comprising a plurality of rotatably mounted members having score-indicating indicia, means for imparting simultaneous movement to all of said members, a plurality of stops, one for each indicia bearing member, and timing means for respectively causing said stops to arrest movement of the respective indicia bearing members in predetermined sequence and at predetermined intervals.

4. An amusement apparatus comprising a plurality of rotatably mounted members having score-indicating indicia, means for imparting simultaneous movement to all of said members, independent stop members for arresting rotation movement of each of said indicia bearing members, an electric timing means, and control means for each stop means operated by said timing means.
means for independently operating said stop members in such manner as to individually arrest movement of the respective indicia bearing members in a predetermined sequence and at predetermined intervals.

5. An amusement apparatus comprising a plurality of rotatably mounted score-indicating indicia, an electric motor for imparting simultaneous movement to all of said indicia-bearing members and being operative to effect simultaneous rotation of the indicia-bearing members by the shaft, and means operative to release the clutch driving connections and arrest movement of the indicia-bearing members successively at definitely measured time intervals and in such manner that said indicia are displayed in predetermined positions.

7. An amusement device automatically operating under a system of absolute chance to display successive point scores in a plurality of innings of each team in a mythical competitive game comprising a series of revolving indicia arranged side by side each bearing a series of indicia, each member when stopped displaying a plurality of indicia of the series thereon, driving means for revolving all of said members together, and operative to drive each member after a preceding member has been stopped, means for stopping the first of the successively arranged members of the series while the following members of the series are still revolving, and control means operative to stop each subsequent member of the group in order at a predetermined interval after stopping of the next preceding member.

11. An amusement device automatically operating under a system of absolute chance to display successive point scores in a plurality of game periods of each competitor in a mythical competitive game comprising a plurality of revolving indicia arranged side by side each bearing a series of indicia and arranged when all said members are stopped to display indicia of the various scores at a plurality of spaced successive points along a plurality of aligned parallel lines, power operated driving means for revolving each of the revolvable members which display indicia at the successive points along each of said lines.

13. An amusement device automatically operating under a system of absolute chance to display successive point scores in a plurality of game periods of each competitor in a mythical competitive game comprising a panel, a plurality of display windows in the panel arranged in rows and columns, revolving indicia arranged to display their indicia through the windows, the members displaying indicia in the different columns of windows being capable of revolving independently of each other and adapted to stop at different times, power operated driving means for revolving each of the members, said driving means being operative
initially to revolve all of the members simultaneously and being operative to continue to revolve one member after another member has been stopped, and means for stopping at successive intervals the members which are viewable through the windows of successive columns in successive order.

13. An amusement device automatically operative under a system of absolute chance to display successive point scores in a plurality of game periods of each competitor in a mythical competitive game comprising a plurality of spaced revolvable drums, endless bands each bearing a series of indicia supported by and revolvable with the different pairs of drums, each band being arranged to display when stepped a plurality of indicia of the series thereon, means supporting the drums, power operated driving means for revolving each of the bands, said driving means being operative initially to revolve all of the members simultaneously and being operative to continue to revolve one member after another band has been stopped, and control means operative to stop the successively arranged bands one after another in order at successive times.

17. An amusement device automatically operative under a system of absolute chance to display successive point scores in a plurality of game periods of each competitor in a mythical competitive game comprising a pair of spaced opposing shafts, a series of drums rotatable on one of the shafts, a second corresponding series of drums rotatable on the other shaft, the first series of drums being driven by the second shaft each drum forming a pair with its corresponding drum upon the other shaft, endless bands bearing a series of indicia carried by each pair of drums respectively, each band being driven by the second member, means for driving the second shaft to revolve all of said bands, individual means for stopping the respective bands, and control means operative through said individual means to stop each successively arranged band one at a time while each following band continues to be driven by the driving shaft and being operative to stop successively arranged bands in order at successive time intervals.

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