Aug. 26, 1952 W. D. WARD 2,608,347

STOP-CARRYING PLATE FOR RECORDING MACHINES

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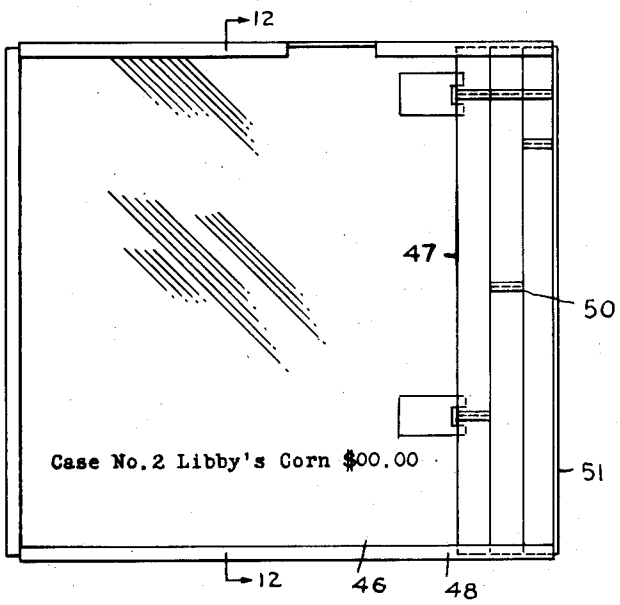


FIG. 1.

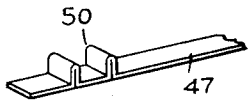


FIG. 4.

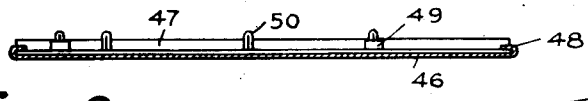


FIG. 2.

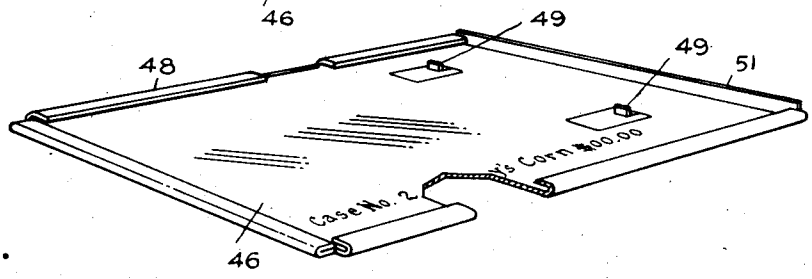


FIG. 5.

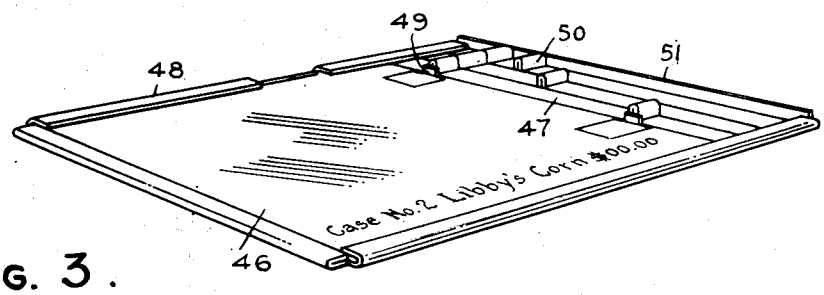


FIG. 3.

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STOP-CARRYING PLATE FOR RECORDING MACHINES

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1 Claim. (Cl. 235—61.12)

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This invention relates to a device for use with recording machines of a large number of different classes but characterized generally by having means for presenting information as a result of their operations. Such machines include addressographs, recorders, registers, calculators, as well as various sorts of printing and writing machines, having a wide variety of operating mechanisms and presenting the information resulting from their operations in a wide variety of ways.

In general, such machines present their information by means of one or more information-presenting elements that are movable between significant positions, such positions being capable of interpretation that conveys the required information resulting from operation of the machine. Such machines also comprise mechanism for moving the information-presenting members between their significant positions, such mechanism normally including an element that is operatively connected to an information-conveying member, and that is movable along a predetermined path between different positions which correspond to the significant positions of the information-conveying member, the latter being moved between such positions as the operating element moves between its corresponding positions.

The present invention provides a device that cooperates with such moving operating elements to limit their travel in predetermined positions wherein the recording or information-conveying member or members are in preselected ones of their significant positions. For convenience, all machines of the type described herein are termed "recording machines."

The device is useful with any type of recording machine, as described above, regardless of the manner in which the information-presenting member or members convey their information. Such members may be drums, disks, dials, slides, or other movable members and the information may be printed or otherwise marked or recorded on a surface, or transferred to other mechanism for additional operations.

The primary object of the invention is to provide a simple, inexpensive and wholly practical and satisfactory device for controlling the mechanism of a recording machine of the described type, to operate it in a preselected way.

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Fig. 1 is a plan view of my stop-carrying plate.

Fig. 2 is a sectional view on line 12—12 of Fig. 1.

Fig. 3 is a perspective view of the device of Fig. 1, and

Figs. 4 and 5 are perspective views of the two elements of which the device of Fig. 1 is made.

In the form of device shown in Figures 1 to 5, the plate 46 carries elements 47 in the form of strips, mounted on the plate by engagement of their ends under the rebent edges 48 and positioned against lateral movement by upstruck tabs 49. Stops 50 are formed on the strips by rebending them at predetermined locations suitably positioned to perform the predetermined stopping action. Preferably the tabs 49 butt against rebent portions of the strips, which portions may be a stop 50, or a specially provided rebent portion 51 positioned outside the paths of travel of the studs 40, which portion 51 likewise prevents lateral displacement of the elements 47 in a manner similar to the tabs 49.

It will be understood that a great many variations of plates and stop arrangements may be used to accommodate the great number and different arrangements of machines that operate on the principle of operating elements movable along fixed paths to move information-presenting members to different significant positions, such arrangements essentially comprising supports such as the plates 43 or 46, paralleling the path of travel of such operating elements and provided with stops projecting into the paths of parts of such elements for stopping them when the members have reached preselected significant positions. The machine mechanism, and the stop device herein disclosed are purely exemplary structures selected to disclose the invention.

It will also be understood that the stop-carrying plates are removably and replaceably mounted in the machine, so that any predetermined result of the machine may be accomplished by mounting a plate with stops correctly and predeterminedly arranged to produce such result.

What is claimed is:

A stop-carrying plate of the character described including a flat plate-like body having three of its peripheral edges each formed with an inturned flange disposed parallel to and on one side of the body and on the same side of the body the other peripheral edge being upturned,

upstruck tabs projecting through on the same side of the body, and detachable tabs in the form of strips having rebent protrusions, the ends of the strip tabs being disposed in the inturned flanges of the plate-like body, the upstruck body tabs holding the strip tabs and preventing movement of the same in one direction while the upturned edge of the plate-like body prevents movement in another direction.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
391,919	Roswell	Oct. 30, 1888
1,091,498	Friedlein	Mar. 31, 1914
1,584,995	Saltzman	May 18, 1926
1,607,435	Carroll	Nov. 16, 1926
1,871,060	Hoffman	Aug. 9, 1932
2,240,667	Paris	May 6, 1941
2,353,061	Oldenboom	July 4, 1944

FOREIGN PATENTS

Number	Country	Date
94,431	Austria	Oct. 10, 1923
94,432	Austria	Oct. 10, 1923