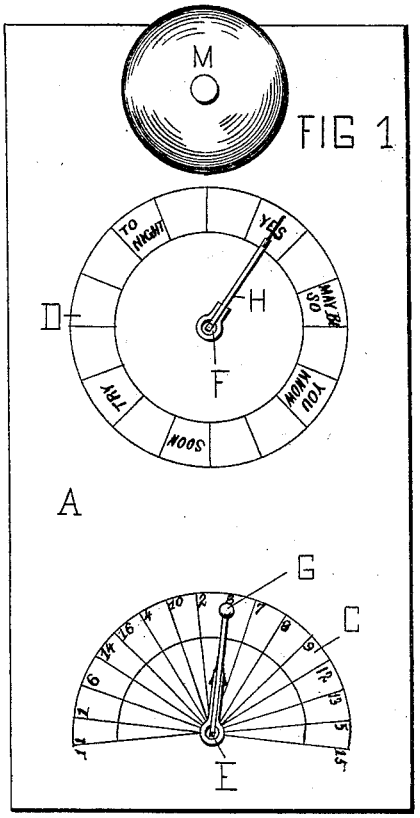
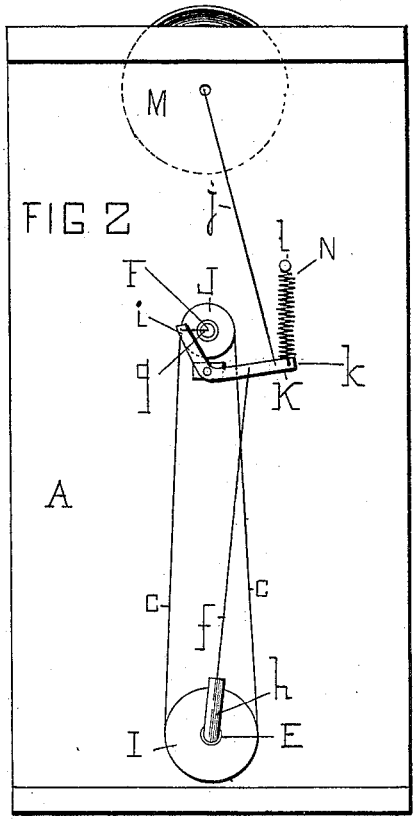
(No Model.)

W. R. FEARN.

QUESTION AND ANSWER EDUCATOR.

No. 523,338. Patented July 24, 1894.





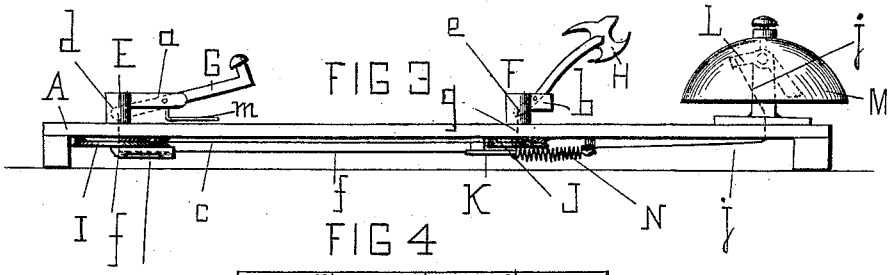
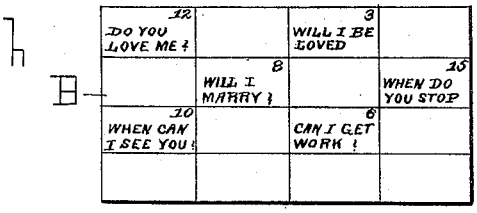
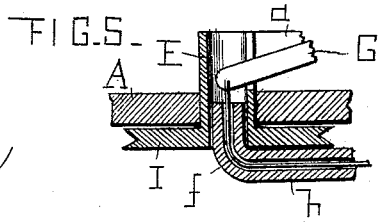


FIG 4





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UNITED STATES PATENT OFFICE.

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QUESTION AND ANSWER EDUCATOR.

SPECIFICATION forming part of Letters Patent No. 523,338, dated July 24, 1894.

Application filed September 4, 1893. Serial No. 484,711. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM R. FEARN, a citizen of the United States, residing at Camden, in the county of Camden and State of New Jersey, have invented a new and useful Question and Answer Educator, of which the following is a specification.

My invention relates to a device by which instruction is imparted by means of questioning and answering.

It consists in a flat-board having, on its top side, a gong and striker, a removable question-card, a removable figured or numbered-dial, a removable answer-card, and pivoted dial-pointers having a simultaneous rotary and vibrating motion. On the bottom side of said board are means for actuating the dial-pointers.

On reference to the accompanying sheet of drawings making part of this specification, Figure 1 is a top view of a device embodying my invention. Fig. 2 is a bottom view. Fig. 3 is a side elevation. Fig. 4 is a plan view of the question-cards, and Fig. 5 is a longitudinal and vertical section of the base-board, hollow-shaft and pulley, guide-tube, and actuating cord.

Similar letters refer to similar parts in the several views.

A is the base-board of the educator, and B is a question card which can be laid at any convenient part of the board A when it is to be adjustably and conveniently located, or it can be glued or otherwise secured to said board if it is to be permanently fixed.

C is a removable figured or numbered-dial, and D is a removable answer-dial.

The dials C, D, are provided with vertical hollow-shafts E, F, respectively, which extend both ways beyond the board A, and have projecting arms, *a*, *b*, provided with pivoted dial-pointers G, H. At their bottom ends said hollow-shafts have the grooved-pulleys I, J, connected by a cord or belt, *c*, so that the dial-pointers shall have a simultaneous rotary-motion in a horizontal plane. The ends, *d*, *e*, of the dial-pointers G, H, extend within the hollow-shafts, E, F, and are connected by cords, *f*, *g*, from the dial-pointers, G, H, through the hollow-shafts E, F, and a guide-tube, *h*, to an intermediate elbow-lever K pivoted to the bottom of the board A, Figs. 2 and 3, so that when the dial-pointer G is depressed, the dial-pointer H is similarly acted on through the connecting mediums, viz., the cord, *f*, vibrates the lever K until its opposite arm, *i*, slackens the cord, *g*, and permits the dial-pointer H to drop on its respective answer-dial D. A cord, *j*, extends between the arm, *k*, of the lever K and the striker L of the gong M, and a spiral-spring N lies between a pin, *l*, of the board A and the arm *k* of the lever K for returning the several parts to their normal positions, Fig. 3. A depending stop, *m*, of the dial-pointer G limits its descent by contacting with the top of the board A, thereby preventing the straining of its connecting parts.

The figured or numbered-dial C and the answer-dial D are made removable to adapt the invention to questions and answers on various subjects. When a subject is selected the dials are changed to those relating thereto. The question-card B can, as aforesaid, be laid on the board A so as to be removable, or it can be glued to the board when there is but one subject. I prefer to have it removable so that it can be readily lifted from the board and held in the hand of the examiner.

The figures on the question-card B, Fig. 4, relate to the figures on the numbered-dial C, Fig. 1, and the questions on said question-card B relate to the answers on the answer-dial D. The dial-pointers G, H being arranged on their respective dials C, D, to answer the questions of the question card. On question three "Will I be loved" being propounded, and the dial-pointer G turned until it rests over figure 3 of the figured or numbered dial C. Through the medium of the pulleys I, J, and the cords *f*, *c*, *g*, the hollow-shaft F and its dial-pointer H are simultaneously turned over their dial D. On the dial-pointer G being suddenly depressed on figure 3, the pointer H will be simultaneously depressed and strike the answer "Yes," which is announced by the ringing of the gong M.

I claim—

In a device of the character described, the

combination of a base-board, question-card, answer-dials, connected hollow-shafts, connected pivoted pointers of the hollow-shafts, gong and striker, and means of operating the gong and striker by the movement of the hollow-shafts and pivoted-pointers, as shown and described.

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

WILLIAM R. FEARN.

Witnesses:
FRANCIS D. PASTORIUS,
JAMES M. CASSADY.