

(No Model.)

I. S. KINCH.
EDUCATIONAL APPARATUS.

No. 309,064.

Patented Dec. 9, 1884.

Fig. 1.

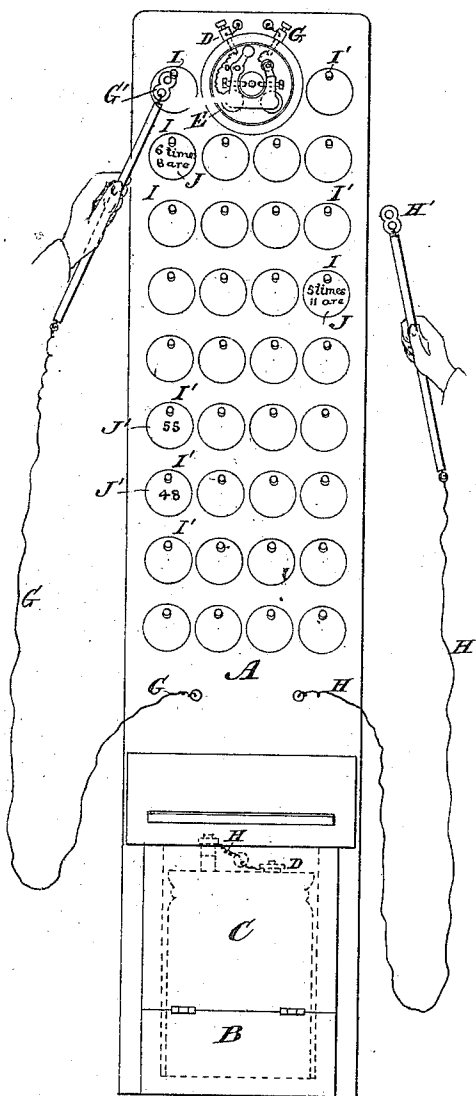


Fig. 2.

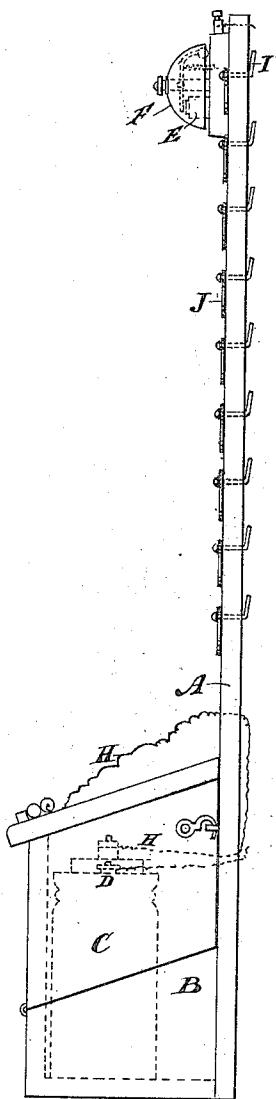
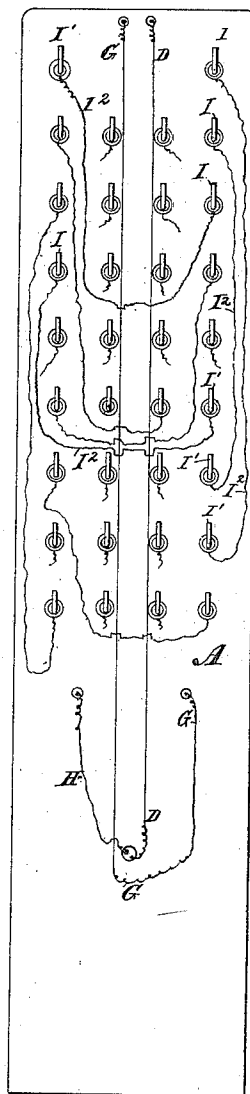


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

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EDUCATIONAL APPARATUS.

SPECIFICATION forming part of Letters Patent No. 309,064, dated December 9, 1884.

Application filed June 21, 1884. (No model.)

To all whom it may concern:

Be it known that I, IRA S. KINCH, of New York, in the county and State of New York, have invented a certain new and useful Improvement in Educational Apparatus, of which the following is a specification.

The object of my improvement is to produce an apparatus whereby the education of children may be made easy and interesting.

My apparatus comprises series of questions and answers, and a signal, either audible or visual, or both, whereby a child will be informed when he has found the proper answer given to any particular question.

In the accompanying drawings, Figure 1 is a front view of an apparatus embodying my improvement. Fig. 2 is a side view of the same, and Fig. 3 is a back view thereof.

Similar letters of reference designate corresponding parts in all the figures.

A designates a base-piece or body-piece, which may be made of wood or other suitable material and of any desirable shape. As here shown, it occupies an upright position, although it may be arranged in any convenient position. At the lower end of the body-piece, as here shown, a box, B, is arranged. It preferably has a hinged cover. Within it is an electric battery, C, of any approved type.

From one pole of the electric battery C a wire, D, extends along the back of the body-piece A to one end of the helix of an electro-magnet, E, whereby the clapper of a bell, F, may be operated. A wire, G, extends from

the other end of the helix of the electro-magnet E along the back of the body-piece, and passes through the body-piece to the front. The portion extending through the body-piece

is long enough to reach to any part of the front of the body-piece, and at the extreme end it is provided with a contact-piece, G', here shown as having a ring-shaped portion.

The wires D G are covered with any suitable insulating material. From the other pole of the electric battery C a wire, H, extends.

Beyond the front of the body-piece this wire H is long enough to reach to any part of the front of the body-piece. It is shown as provided with a contact-piece, H', comprising a

ring-shaped portion. The wire H is covered with insulating material of some suitable kind.

On the front of the body-piece A are a number of metal pins, I I', extending through to the back, and connected there by wires I², covered with any suitable insulating material. Cards or tablets J J' are hung on the pins I I'. The cards or tablets J are hung on the pins I, and the cards J' are hung on the pins I'. Each card or tablet J has a question marked on it, and the corresponding card or tablet, J', has the proper answer to the question marked on it. The cards or tablets may be removed and replaced by others. A child takes the wire G and places the ring-shaped portion of its contact-piece G' on any of the pins I. He then takes the wire H and places the ring-shaped portion of its contact-piece H' on the pin I', which is connected by a wire, I², to the pin I, with which the wire G has been connected. The child may hang the contact-piece H' of the wire H on several pins I' in succession before selecting the proper one. When he selects the proper one, he is apprised of it by the ringing of the bell F, for then the electro-magnet E of the bell will be included in a circuit with the wires G H. The bell may be an electro-magnetic bell adapted to ring continuously or only once.

This apparatus is advantageous in that it informs a child when it has answered or selected the proper answer to any question, and thus supplies the place of a teacher.

The apparatus may be of any suitable form.

A visual signal may be used instead of an audible signal; or a combined audible and visual signal may be employed.

Of course an apparatus embodying my improvement may be used in the education of adults as well as children.

I consider my invention to involve any suitable mechanism whereby a signal will be given whenever the proper answer to a question is selected.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In an educational apparatus, the combination of cards or tablets bearing questions, other cards or tablets bearing answers to said questions, and mechanism whereby when a card or tablet bearing an answer to a question on another card or tablet shall be selected a signal will be given.

2. In an educational apparatus, the combination of detachable cards or tablets bearing questions, other detachable cards or tablets bearing answers to said questions, and mechanism whereby when a card or tablet bearing an answer to a question on another card or tablet shall be selected a signal will be given.

3. In an educational apparatus, the combination of cards or tablets bearing questions, other cards or tablets bearing answers to said questions, and an electro-magnetic signal which will be operated so as to give a signal whenever a card or tablet bearing an answer to a question on another card or tablet shall be selected.

4. The combination of a body-piece, a number of metal pins, I I', connected by wires I², a number of cards or tablets, J J', bearing questions and answers, an electric battery, C, a wire, D, an electro-magnetic signal, a wire, G, provided with a contact-piece, G', and a wire, H, provided with a contact-piece, H', substantially as specified.

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Witnesses:

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