

No. 864,850.

PATENTED SEPT. 3, 1907.

C. J. F. LANGE.  
 WRITING APPARATUS.  
 APPLICATION FILED AUG. 8, 1903.

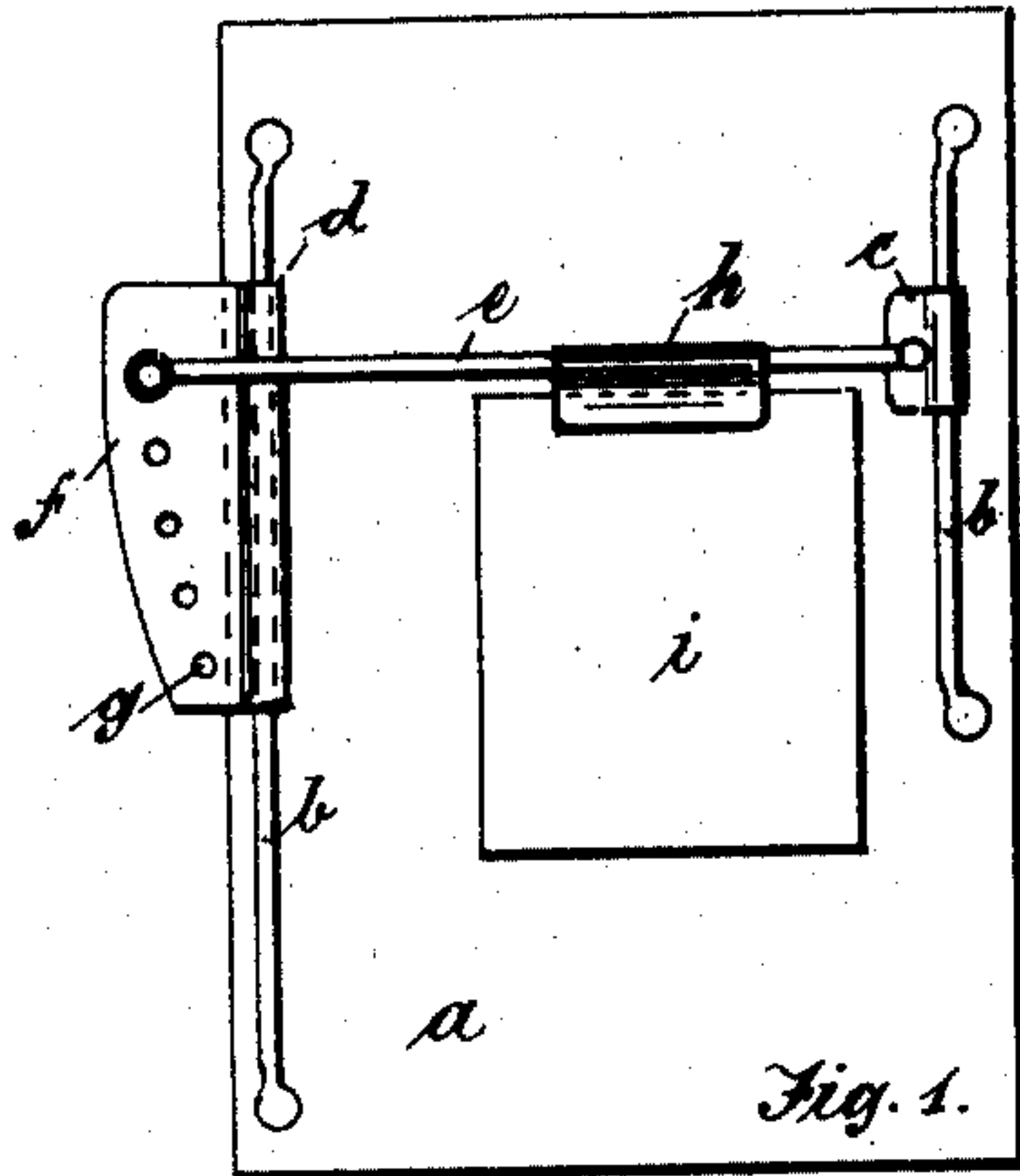


Fig. 1.

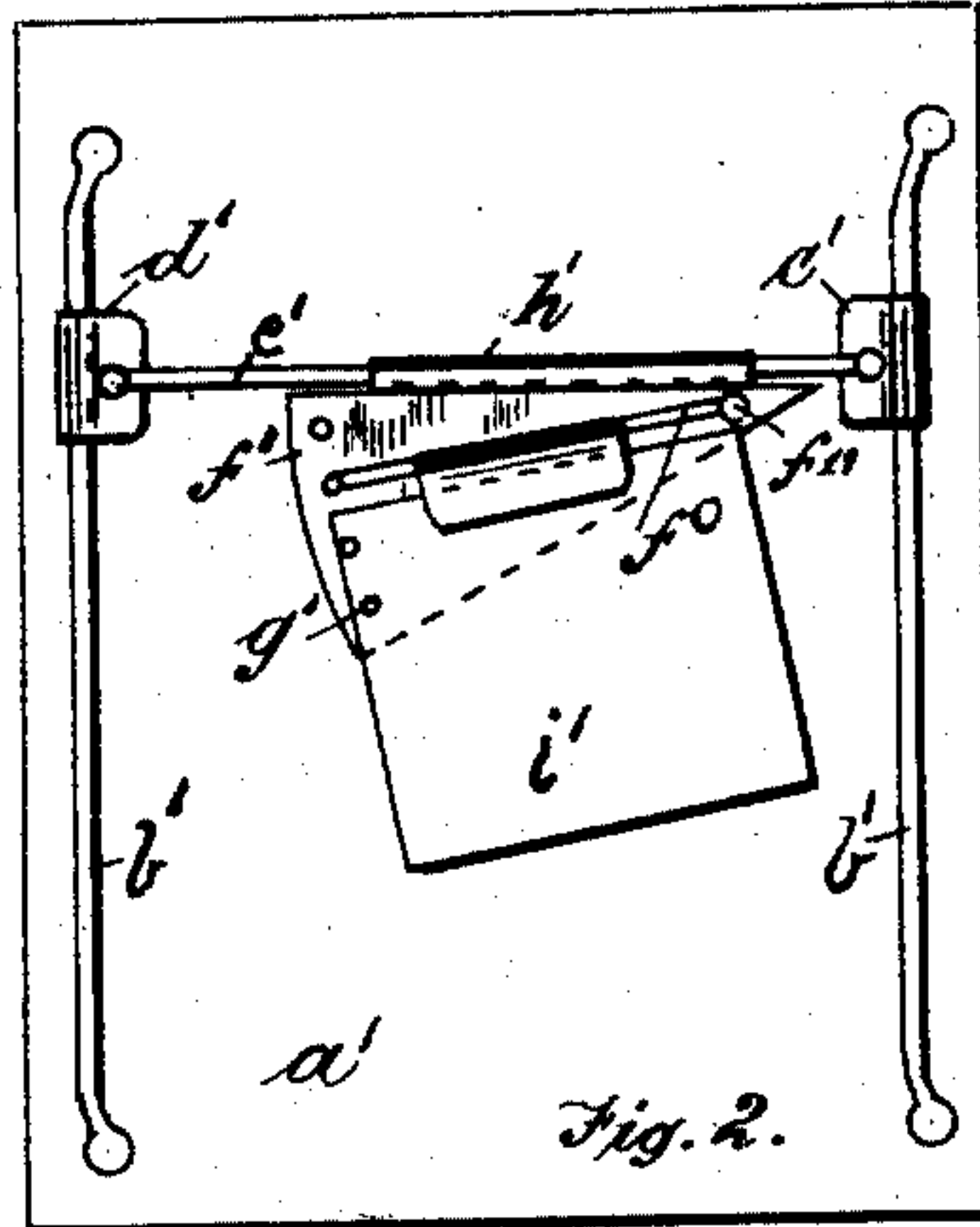


Fig. 2.

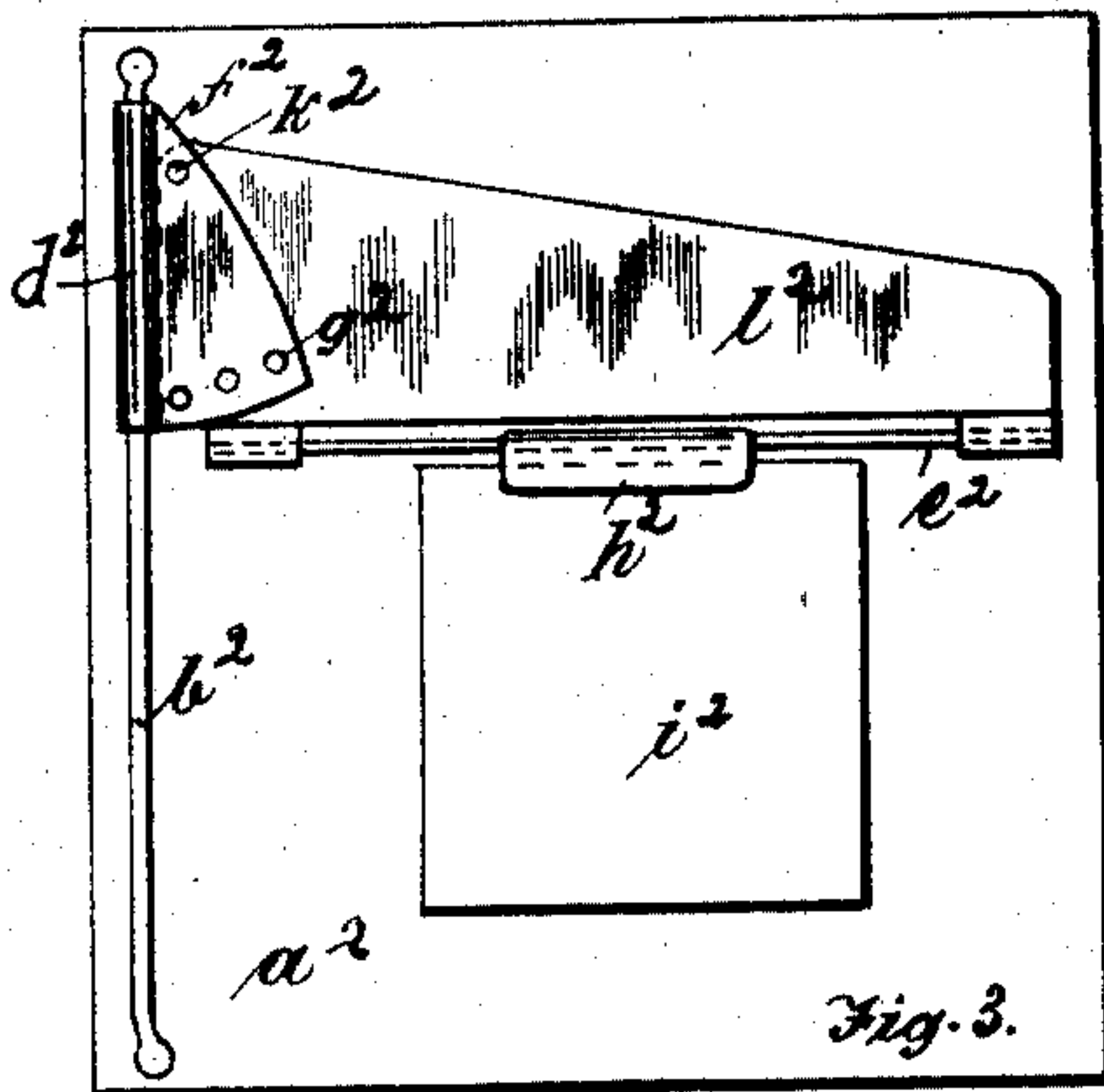


Fig. 3.

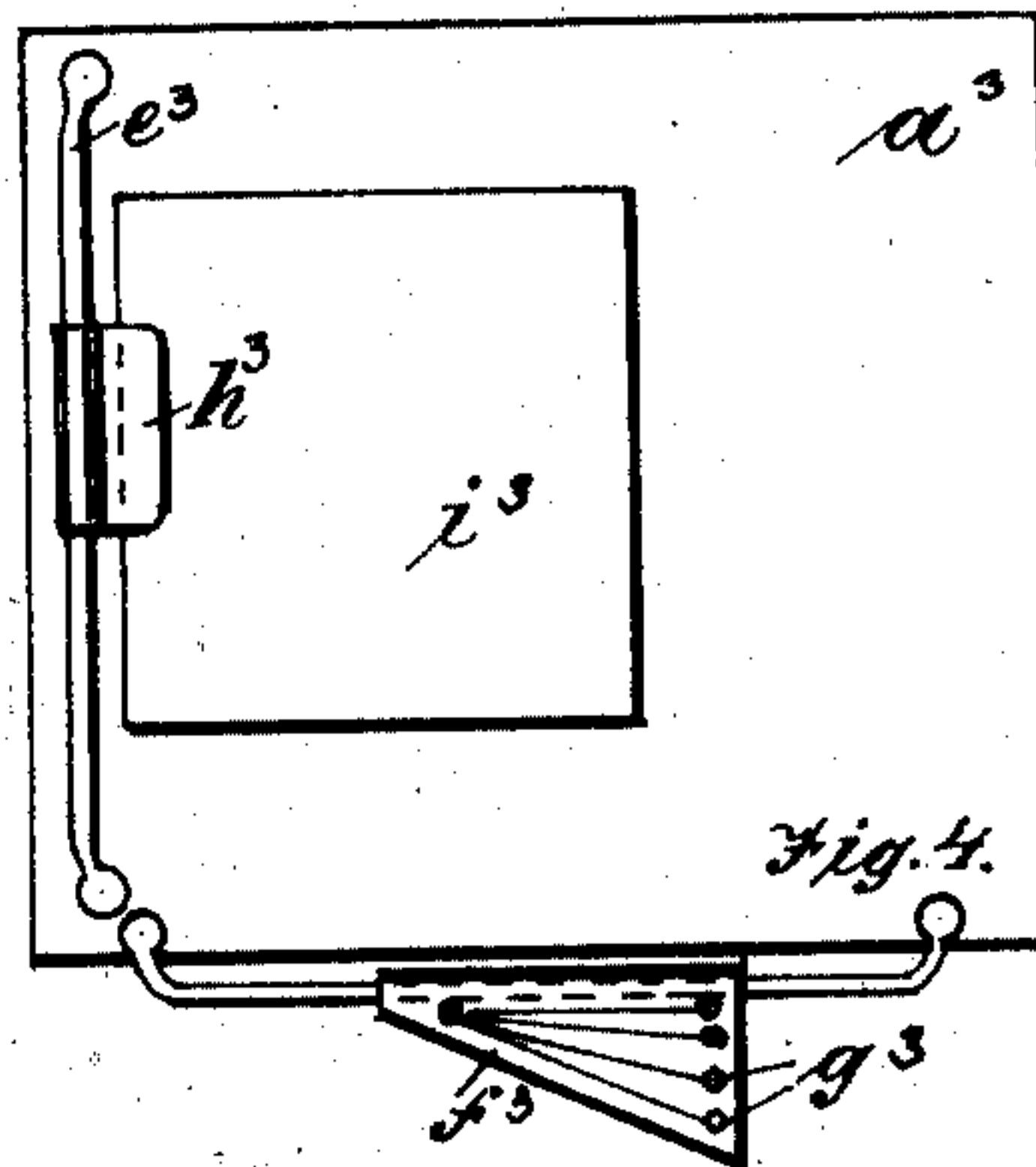


Fig. 4.

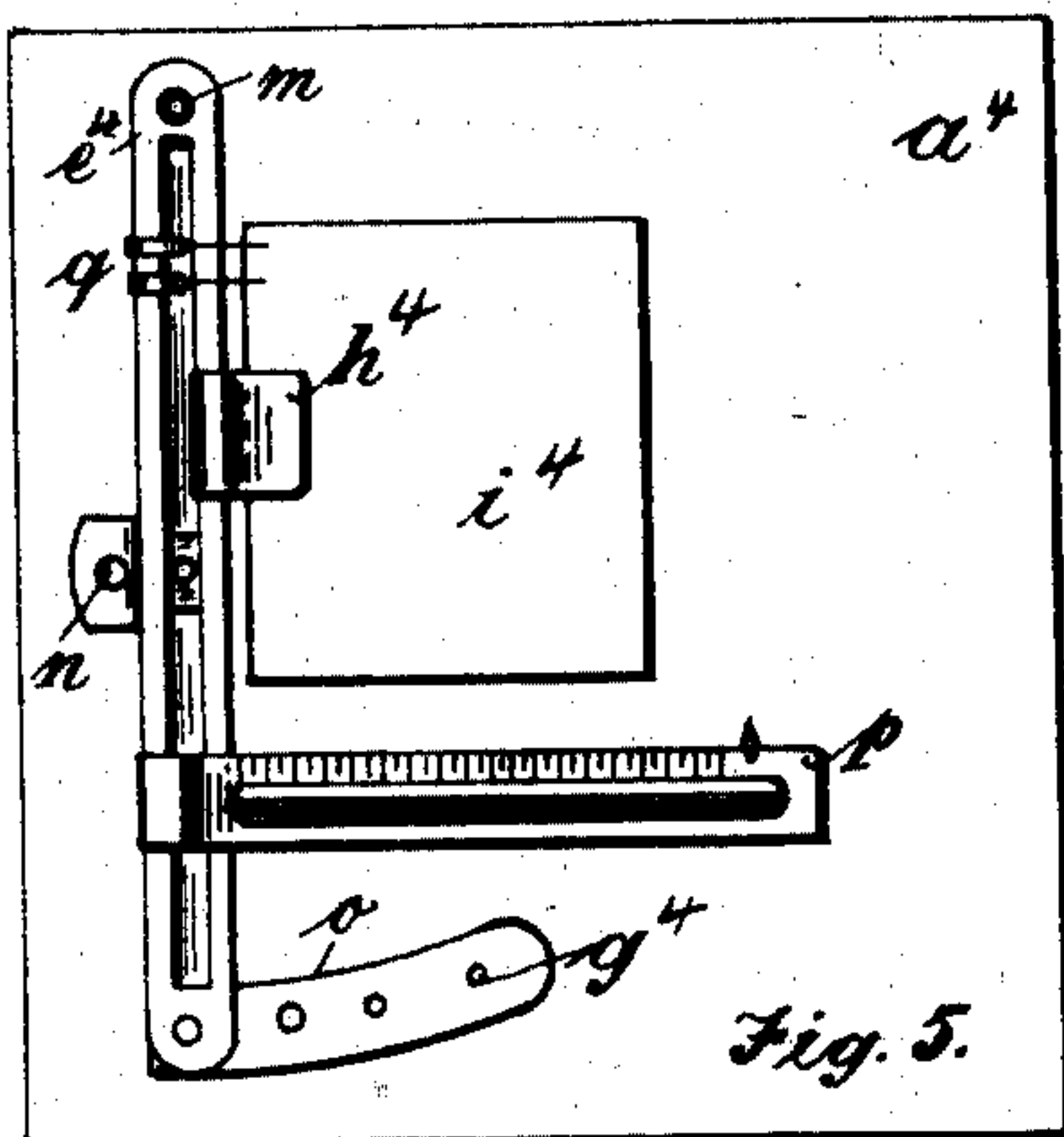


Fig. 5.

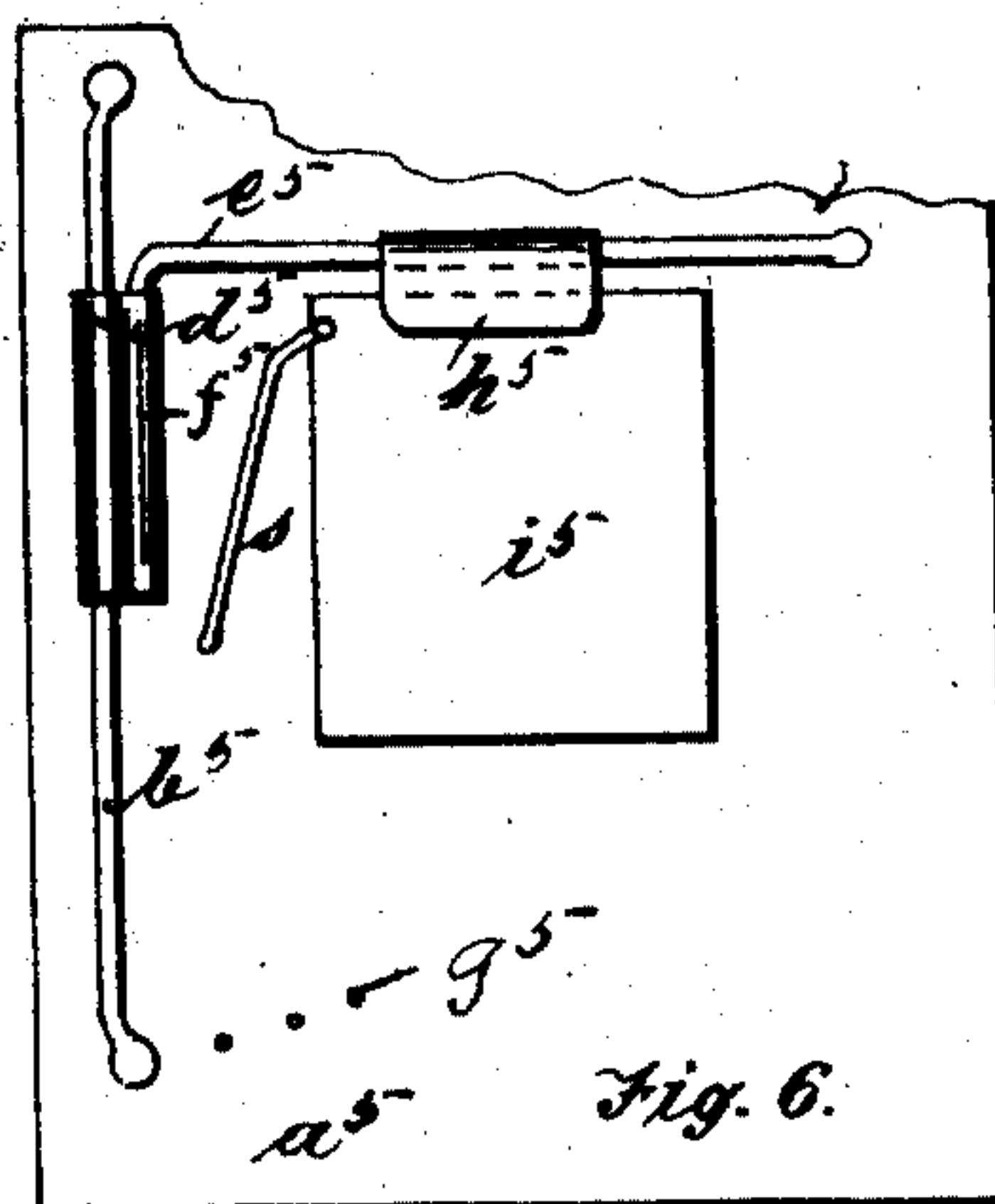


Fig. 6.

Witnesses—

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# UNITED STATES PATENT OFFICE.

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## WRITING APPARATUS.

No. 864,850.

Specification of Letters Patent.

Patented Sept. 3, 1907.

Application filed August 8, 1903. Serial No. 168,844.

*To all whom it may concern:*

Be it known that I, CARL JOHANN FRIEDRICH LANGE, a subject of the German Emperor, residing at 11 Kleine Rosenthalerstrasse, Berlin, Germany, have invented certain new and useful Improvements Relating to Writing Apparatus, of which the following is a specification.

This invention relates to writing apparatus with which it is possible to satisfy the demands of teachers, physicians, and so on, with regard to the proper position of the letters, direction of the lines, line distance and sight direction as well as to easily observe the proper position of the body and of the hand.

The invention has especially for its object to observe the requirements that the eyes should be always at an equal distance from the word which is copied and the word which is written. This acquirement is attained when the position of the hand allows of the pen lying with the body inside of the side lines of both eyes which can only be attained when the hand remains in the normal position and the paper is shifted in position corresponding to the height and lateral direction.

The invention consists of a writing pad having means whereby its position may be adjusted so that the writing hand can always remain in practically the same position.

The invention is illustrated by way of example in the accompanying drawing, in which

Figure 1 represents a plan of one arrangement in which the invention is embodied. Fig. 2 is a plan of a modification. Fig. 3 is a plan of a further modification. Fig. 4 is a plan of yet a further modification, while Figs. 5 and 6 are still further modifications, in which the invention is carried into effect.

As illustrated in Fig. 1, guiding rods or strips  $b$   $b^1$  are provided upon a board or plate  $a$  in position parallel to each other. Towards the lateral edges of the board or plate and upon these guiding rods or strips  $b$   $b^1$  sleeves  $c$  and  $d$  are provided to slide with, such sleeves being provided with lateral extensions for the connection together by means of a rod  $e$  in such manner that this rod is fixedly held, but pivotally provided at one end in the sleeve  $c$ , while being capable of being moved into any of the holes of a series of holes  $g$  provided in the lateral extension  $f$  of the sleeve  $d$ , within any of which holes, the extremity of the rod  $e$  may be fixed by any suitable means.

Upon the rod  $e$  a sliding sleeve  $h$  is provided furnished with a clamp which serves for holding the paper, pad, or book  $i$  which is used for the writing. It will thus be understood that the paper, pad, or book may be readily removed from the clamp, and fresh paper, pad, or book may be inserted as required.

According to the fixture of the end of the rod  $e$  in any one of the holes of the series of holes  $g$ , the paper, pad,

or book to be written upon can be arranged at any desired angle in which it is kept during the writing.

According to the modification illustrated in plan in Fig. 2 the rod  $e'$  is fixedly held in the sleeves  $c'$  and  $d'$  so as to be guided upon the rods  $b'$ ,  $b'$  in parallel positions, and the angular adjustment of the paper, pad, or book  $i'$  is provided by means of a plate  $f'$  which is formed integral with the sleeve  $h'$ . Divisions are provided upon the plate  $f'$  also and a series of holes  $g'$ , within one of the holes an angularly adjustable rod  $f''$  is capable of being inserted, its extremity is capable of being fixedly retained by any suitable means at  $f''$  as illustrated and being provided with any suitable clamping device for engaging the paper, pad, or book of any other kind.

It will be understood that for the displacement of the rod  $e^2$  in a vertical direction one guiding rod such as  $b^2$ , as illustrated in the modification of Fig. 3 may alone be employed, as is also illustrated in the modification of Fig. 6. An angular adjustment may also be provided by means of an extension  $f^2$  upon the sleeve  $d^2$  with graduations and holes provided on the inside of the guiding rod  $b^2$ , while a strip  $l^2$  of any suitable material may be employed for carrying the rod  $e^2$  upon which the clamp  $h^2$  holding the paper, pad, or book may be laterally displaced. The strip  $l^2$  is pivoted at  $k^2$  and its angular adjustment is effected by means of pins or other means engaging in one of the holes  $g^2$  provided in the extension  $f^2$  as illustrated.

In the modification illustrated in plan in Fig. 4 the rod  $e^3$  is vertically arranged with the sleeve provided with the clamp sliding in a vertical direction thereon and holding the paper, pad, or book at the side. The angular adjustment may be provided for by means of the plate  $f^3$  provided with graduations, which plate  $f^3$  is secured to the bottom edge of the base or board  $d^3$  in such a manner, that the said base or board is slidingly secured in relation to said plate  $f^3$  by means of a suitable connecting strip, mounted upon said plate  $f^3$  and suitably attached to the said base or plate  $a^3$ . The preferably sectional plate  $f^3$  is provided with holes  $g^3$  and may be secured to the table in any desired inclined position. The angular adjustment may however be effected in this arrangement as in the modification illustrated in Fig. 5, that is to say, instead of employing the plate  $f^3$  as illustrated in Fig. 4, rods  $e^4$  may be provided at  $m$  or  $n$  or at the lower extremity so that it can be adjusted in any required angle in connection with a plate  $o$  provided with a series of holes  $g^4$  into any of which a pin or any other device upon the rod or strip  $e^4$  may enter for fixedly retaining the rod or strip  $e^4$  in any desired angular position. The rod or strip  $e^4$  may however be fixed direct upon the writing blotter for effecting the desired angular adjustment.

Instead of providing guide rods and sleeves any other



arrangement may be employed for guiding the respective movable parts upon the fixed guiding members, for example, slots may be employed, while, instead of the plate  $f^3$ , any other suitable device may be employed for the angular adjustment.

For the purpose of guiding the fingers in writing to procure the proper position of the hand, a bar  $p$  may be provided as a ruler which may be formed with grooves or ridges for the purpose of guiding the fingers in writing, while the bar may also serve as a ruler and may be provided with a scale as well as with a sliding pointer and it may also be fixed upon the plate  $a^4$  or upon the writing pad or book  $i^4$ . For the purpose of securing equal distance between the respective lines written a pointer  $q$  may be provided as illustrated in Fig. 5 which may indicate the width of lines upon the edge of the paper, pad, or book, in order that the normal body or position in copying of the matter, for example, may not be departed from which may easily take place and in order that the eyes may be placed at equal distance from the word.

For the easier movement of the paper which is to be written upon either in the vertical or lateral direction, a rod or lever  $s$  (Fig. 6) may be provided upon the part  $h^5$  or  $f^5$  or upon the writing or the book  $i^5$  or upon the rod  $e^5$ .

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

1. In a writing apparatus the combination with a base on which a piece of stationery is supported, of guiding means, detachably, and adjustably secured to one of the sides of said piece of stationery, and means in connection with said base for effecting a horizontal angular adjustment of certain of said guiding means.

2. In a writing apparatus the combination with a base on which a piece of stationery is loosely supported, of guides, arranged on said base and stationery holding and retaining means, adjustably arranged upon said guides and means for changing the horizontal angular adjustment of certain of said guides in relation to said base.

3. In a writing apparatus the combination with a base on which a piece of stationery is supported, of stationery

holding and retaining means in engagement with one of the sides of said piece of stationery; guides mounted on said base and adjustably connected to said holding means, pivotal connection of certain of said guides with the base and means in connection with said base for securing the said pivoted guiding means in position.

4. In a writing apparatus, the combination with a base of guides arranged on said base and stationery holding and retaining means, adjustably arranged upon said guiding means and means for changing the horizontal angular adjustment of certain of said guiding means in relation to said base.

5. In a writing apparatus the combination with a base of a plurality of guiding means upon said base, arranged at right angle to each other, stationery holding and retaining means upon one of said guides and adjustably arranged upon the said guide and pivotal connection of certain of said guides with the said base.

6. In a writing apparatus, the combination with a base of a plurality of guiding means, mounted upon said base at an angle to each other, pivotal connection of certain of said guides with said base, stationery retaining and holding means, adjustably mounted upon one of said guides, means on said pivotal guide and means upon certain of the relatively stationary parts, over which the said pivotal guiding means can move, engaging with each other, for securing the pivotal guiding means in position.

7. In a writing apparatus, the combination with a base of a plurality of guiding means on said base substantially at right angle to each other, stationery holding and retaining means, mounted upon one of said guiding means, pivotal connection of certain of said guiding means with said base and means on said base engaging with said pivotal guiding means for securing the latter in any desired position.

8. In a writing apparatus, the combination with a base, of a plurality of guiding means on said base, sliding upon each other and one at right angle to the other, stationery holding and retaining means upon one of said guiding means and pivotal connection of certain of said guiding means with said base and means on said base engaging with said pivotal guiding means for retaining the latter in any desired angular position.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CARL JOHANN FRIEDRICH LANGE.

Witnesses:

WOLDEMAR HAUPT,  
HENRY HASPER.