NOVEL FOLDING CRADLE.

The cradle represented in the annexed engraving is capable of being folded into very compact form for storage or shipment, and, when extended, it possesses all of the conveniences of the best cradles in use. The cradle is formed of two triangular folding end frames provided with folding braces and connected by longitudinal rods, from which the canvas bottom is supported. These frames are pivoted at their apex on the top of two connected triangular folding standards, and are provided with a crank for swinging the

A bent rod, from which a fan is suspended, is attached to and hrick, two stories high. All the freight will be received cigar boxes. by means of which nails are dispensed with,

the bearings of the cradle in such a way that it moves in a direction opposite to that of the cradle when it is swinging, or the fan may be operated independently of the movements of the cradle. The two triangular frames forming the cradle are provided with pivoted folding braces and are suspended at their apex from shafts mounted at the apex of triangular folding standards which are also provided with the pivoted folding braces. The cradle ends are connected with each other by rigid longitudinal rails. The cradle frames are connected by the longitudinal bars from which the canvas forming the bottom of the cradle is suspended. Wicker work or a railing extends along the sides of the cradle.

The shaft, from which the cradle is suspended, is provided with a crank for swinging the cradle, and with connections for operating the fan. These connections are made adjustable, so that the fan may be moved more or less, and provision is made for swinging either cradle or fan separately. The cradle may be operated by means of a treadle, or by a string or belt, from an adjoining room.

Fig. 1 is a perspective view show-

view, showing the operating mechanism, and Fig. 3 shows the cradle folded up.

Brownwood, Texas.

NOVEL BOOK HOLDER.

for holding the book open, and are connected together by removable upper and lower longitudinal rails, one of the lower ones being provided with a shelf for supporting the book. The end pieces are provided with an adjusting device by means of which the inclination of the book may be changed at pleasure. The device may be taken apart readily and packed in very small compass. It will be found very useful by students, copyists, and readers generally. It is neatly and substantially made of wood and nickel-plated

Cooking by Electricity.

Of the many curious things certain to be seen at the forthcoming exhibition of elec tricity at Paris, not the least remarkable will be the electrical cooking range of M. Salignac. That ingenious gentleman is going to fit up his apparatus in the grill room of the restaurant, and intends to furnish a great variety of meats which have been cooked by heat generated from the electric current.

At the last Paris Exhibition, M. Mouchot roasted mutton in condensed sunshine, and literally turned his spit on the hearth of the sun: but an enthusiastic admirer might say that M. Salignac had far surpassed this in broiling steaks by lightning and warming coffee with the aurora borealis. As a matter

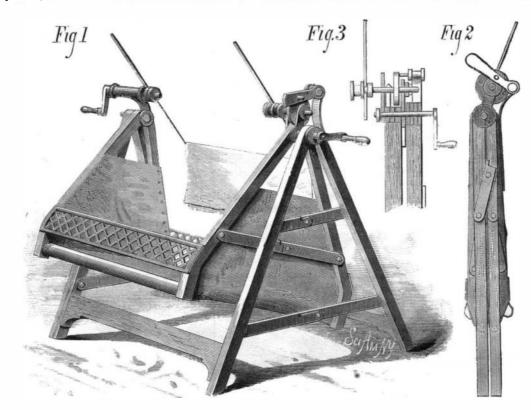
of fact, the electric current is as well fitted to produce heat | feet, is occupied by the passenger station, which is not yet | box, so that the moths that are not able to get at the inner as it is to produce light, and just as electricity will, in all completed. probability be made to yield the principal artificial light of the future, so will doubtless it be applied to household heating. The same machines which light the house by night will heat and cook by day, besides performing other duties, such as driving a coffee mill or a sewing machine.

The Philadelphia Elevated Railway.

The elevated extension of the Pennsylvania Railroad on Filbert street, Philadelphia, is open for freight traffic. The wrought iron deck bridge 33 feet above the street. The ing of the coiled wire and the rapidity of his descent.

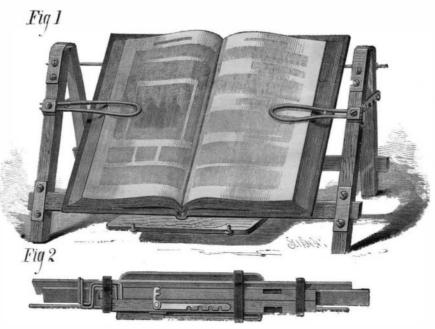
Schuylkill River is crossed 421/2 feet above ordinary high tide on a wrought iron double intersection triangular truss of three spans. About 190 buildings were removed along Filbert street in preparing for the construction of the work. The roadbed from Shock to Sixteenth street, a distance of 2,042 feet, is 106 feet wide, and contains nine tracks. Near Seventeenth street is a turn-table, east of which is a hydraulic elevator for mail express and baggage.

The building on the square bounded by Fifteenth and Sixteenth and Market and Filbert streets, formerly used for the freight station, has been entirely removed and rebuilt of iron patented an improved spring catch or lock to be applied to



CLARK'S FOLDING CRADLE.

ing the cradle in condition for use, Fig. 2 is a sectional from and delivered to wagons on the ground floor, being Mr. Willard S. Whitmore, of Washington, D. C., has conmoved between the first and second floors by sixteen hydraulic elevators capable of lifting five tons each, All This invention was lately patented by Mr. C. C. Clark, of that portion of the second story from Market street is laid with four tracks for freight, with standing room for thirtyfive cars. That portion of the second floor parallel with Filbert street, extending from Fifteenth to Sixteenth street, is The engraving shows a new adjustable and folding-book intended for a shed for the incoming and outgoing passen holder recently patented by Mr. Philip Longes, of Pittston, ger trains. Fifteenth street is crossed by the eight passen-Pa. The frame has two upright ends, each formed of two ger tracks, 19 feet above the surface of the street. The space strips connected at the upper end by a hinge and by a band between Fifteenth street and Merrick street, a distance of spring. These end pieces are provided with spring fingers | 1221/2 feet, and extending from Filbert street southward 190 patented an improved form of buckle designed to be used,



LOHGES' BOOK HOLDER.

RECENT INVENTIONS

Mr. Charles Barlow, of Cookshire, Quebec, Canada, has patented an improved fire escape which consists of a cylinder provided with a piston filled with compressed gas, water, or other liquid, and having a wire coiled around its screwthreaded surface, inclosed, sliding, and revolving in another cylinder that is to be attached to the belt of the operator; and it consists also of an arrangement of valves and their line of the extension leaves the present passenger tracks at connections, so that the operator may control the movement Powelton avenue, and passes over Thirtieth street on a of the inner cylinder, and thereby the speed of the unwind-

Mr. John F. Rakes, of Greenup County, Ky., has patented an improved apple cutter and corer, so constructed as to cut the apples into pieces, separate the pieces from the cores, and discharge the cores from the machine.

A cigar-lighting device or lamp, which will not only be adapted for the purpose of cigar lighting, but at the same time embody an attractive and effective means of advertising, has been patented by Mr. William E. Parsons, Jr., of New York city.

Mr. George G. Niedomanski, of Washington, D. C., has

and a fastening is provided that may be instantly operated to lock or unlock the lid to the box.

Heretofore paper moulds have, in practice, generally been made up of alternate layers of unsized paper and sheets of tissue paper pasted together, which, while damp and more or less plastic, receive the impression of the type, and after being set by baking, form a matrix into which the melted stereotype metal is poured. The object of the tissue paper in the composition of the mould is to give a body to the same and to prevent ragged edges from sticking up. In making this kind of mould the paper of which the mould is composed has set once by drying, and is dampened when the mould is made. It has been found that it is not possible to reduce the paper, having once been set, to the proper condition of a plastic, no matter how damp it may be made, and when an impression is taken in such a composition the proper depth of impression is not obtained, and the tenacity of the tissue paper on the face of the mould causes it to draw, so that the cups of the letters and the spaces between the same are not of sufficient depth and sharpness. To remedy these objections

structed a new composite mould, which is formed of a sheet of unsized paper covered with a layer of paper pulp which has never been set by drying.

An improved speaking-tube mouthpiece has been patented by Mr. George F. Richter, of New York city. The invention consists of an indicator that opens and closes horizontally, in combination with a vertically adjustable mouthpiece, that when adjusted for use closes the indicator, so that it can fall at the slightest pnff of the operatar.

Mr. William F. Mann, of Mount Pleasant, Mich., has

in connection with a strap, for fastening the mouth of a bag or other purpose.

An improved rack and spool for holding rope coils has been patented by Mr. Charles J. Le Roy, of Palestine, Texas. This invention relates particularly to certain new and useful improvements upon the rack and spool for holding rope coils, patented September 28, 1880, No. 232,733; and it consists in a peculiar construction of frame adapted for supporting spools of different lengths, as well as an improved construction of spool for expanding and holding the coil of rope in the center of the reel while being used.

A simple, inexpensive, and efficient device for propelling vessels, and for other purposes, has been patented by Mr. John C. Smith, of Troy, N. Y. It consists of a swiveled loop, and a propeller having a twisted plate at the opposite end of its shaft and a crank, whereby the twisted plate is worked in the swiveled loop so as to feather the paddle.

An improved moth trap, to be placed in front of the openings or apertures of beehives for the purpose of trapping the moths as they attempt to enter the hive, has been patented by Mr. Robert F. Ivey, of Williamsburg, Ga., The invention consists in a box or receptacle provided with two tubes, one inside of the other, the inner one passing through the box into the hive, and the outer one leads into the

tube must pass into the box, whereas the bees pass through the inner tube directly into the hive.

Mr. John F. Smith, of Erie, Pa., has patented an improved bit in which cheek plates are provided with suitable means for attaching them to the check rein and cheek of a bridle, the cheek plates being connected by elastic metallic bars, secured to each of the plates at one of their ends, and pass loosely through the other plate, and are provided with loops or other suitable means at their other ends for attaching them to the ends of the reins, whereby the cheek plates may be drawn together to clamp and compress the jaws of the animal without cutting, pinching, or otherwise injuring the