## Alcohol in Glutinous Liquids.

The author puts 100 to 200 grammes of the substance into a roomy flask, filted with a cork having two perforations. In the one is a bent tube which merely passes through the cork and is connected at the other end with a condenser and a receiver. Through the other passes a tube bent at right angles, its longer end passing down nearly to the bottom of the flask, while the other is connected with any convenient steam generator. The flask is fixed in a water bath, and by means of the current of steam all the alcohol is quickly driven out of the glutinous mass and into the receiver. $-E$. Borgmann.

## FOLDING EGG CASE.

The egg case herewith illustrated is the invention of Mr. W. G. Ruge, of Washington, Mo., and can be folded very compactly so as to occupy little space wbile being returned to the shipper. Two side boards and two end boards are fastened to the buttom, the side boards being a little higher than the others. Ends are hinged to the bottom in such a manner that they can be folded down, and when raised their outer surfaces will rest against the inner surfaces of the end boards. Upon the upper edges of the side boards are placed sides of such a height that their upper edges will be flush with the edges of the ends. The sides are held in place by bars having hooks on their lower ends to catch on studs on the side boards. At each end of the cover is an under cleat so arranged as to project beyond the ends when the latter are raised. Secured to the ends are screw pins, which pass through the cover and receive winged nuts. Lateral displacement of the box is prevented by braces secured to the side edges of the cover, as shown in Fig. 1, which is a perspective view of the case. Fig. 3 is a longitudinal sectional elevation through the same.
When the box is to be filled the ends are swung up, the sides are held on the side boards by the bars, the cover is

placed on, and the uuts screwed down. When the box is to be folded, the cover is removed, the ends are swung down, the sides are removed and placed on the folded ends, the cover is placed on the side and end boards, and the nuts turned on the screw pins projecting from the end boards. The side boards are made higher than the end boards on account of the cleats projecting below the surface of the cover. Fig. 2 shows the case folded.

## Remarkable Surgery.

A remarkable case of recovery from what was thought to A remarkable case of recovery from what was thought to
be a fatal gun shot wound brought many eminent physicians to Bellevue Hospital, this city, last w eek. A young German who shot himself in the head some months ago had been the subject of a number of remark been the subject an arka ble surgical operations. The bullet en
tered the brain immediately above the nose and passed through the head, lodging in the base of the hrain, from which it was removed by boring a hole in the skull. A drainage tube was inserted as a drain for the blood and matter from the wound. Subsequently the tube was withdrawn, the wound healed, and insanity did not result.
The operation for a new nose in plastic surgery was not long since performed in Bellevue Hospital, with more than ordi nary success. The French and Italian method of building up a nose from the cheeks or the arm has little to recommend it, because, there being neither bone nor cartilage, the flesh sinks into the face, a shapeless mass. In the Bellevue Hospital case, Dr. Sabine used the middle finger of the left haud as bridge and septum, taking off three phalanges. This he covered with pieces of flesh from the cheeks The patient, a messenger in the hospital known as "Tommy,'" was suffering from the terrible malady called " lupus." He is now much improved in appearance, and a living example that the bridge of the nose as well as the nostrils can be replaced by a skillful hand.


## WOEHRLES ELECTRIC DOOR KEEPER.

and 3, with the beveled ends protruding from the slots the shell; but when the door is closed the bolts will be forced inward, thereby compressing the springs shown in Fig. 2, and distending those in Fig. 1, and the latter, when the lower pawl is drawn down by the magnets to free the
cog wheel, serve to draw the keeper within the shell and away from the front of the bolt, thus liberating the door so that it may be forced open by the action of the spring at tached to it in the ordinary way. The parts then assume their original position. When closed, the door cannot be opened except by operating the bolt directly, by door knob or key, or by passing a current of electricity to the magnets. Circuit wires connect the magnets with the poles of a batery and with buttons situated in the different stories of the building.

## CANAL BOAT.

A tunnel is formed in the bottom of the boat from fron to rear, the ends being open. At the bow of the boat the tunnel terminates in a lateral enlargement, and a grating or screen is formed to prevent floating objects from entering. Near the front end the tunnel has two curved branchesone on each side-between which a compartment is formed as shown in the plan view, Fig. 2. A shaft is journaled in a standard in the compartment, and a standard in the enlargement. On the front end of the shaft is mounted a propeller wheel, and on the inner end is a crank on which are coupled means for revolving the shaft.
Water, drawn in at the bow by the screw, passes through the tunnel, and being discharged at the stern, assists in prepelling the boat. It is claimed that as the water is drawn in at the front of the boat, the bow need not force the water to one side, and thus no billows are formed to wash out the banks of the canal. As the hoat advances, the discharged water fills the space just vacated by the boat.


## McDONALD'S CANAL BOAT.

Tbis invention has been patented by Mr. Angus McDonald, P. O. Box 17, Au Sable, Mich.

## Krakatoa.

The size of Krakatoa was formerly $331 / 2$ square kilometers; f that 23 square kilometers have subsided, and $101 / 2$ square kilometers remain extant. But on the south and southwest side the island has been increased by a large ring of volcanic products, so that the size of New Krakatoa is now, accord-
 Verlaten Island has become much larger it was formerly 37 and is now 11.8 square kilometers in size. Of the Poolsche Hoedje nothing remains.
In the place where the fallen part of Krakatoa once stood there is now everywhere deep sea, generally 200 , in some places even more than 300 meters deep. It is remarkable that in the midst of this deep sea a rock bas remained which rises about 5 meters above its surface. Close to this rock, which is certainly not larger than 10 meters square, the sea is more than 200 meters deep. It is like a gigantic club, which Krakatoa lifts defiantly out of the sea.

Heosekeepers are frequently annoyed by oil marks on papered walls against which thoughtless persons have laid their heads. These unsightly spots may be removed by making a paste of cold water and pipe clay or fuller's earth, and laying it on the surface without rubbing it on, else the pattern of the paper will then likely be injured. Leave the paste on all night. In the morning it can be brushed off and the spot will have disappeared, but a renewal of the operation may be necessary if the oil mark is old. The experiment will be likely to result most satisfactorily on plain papers, or that with the least number of colored tigures.

