THE LAYMAN PNEUMATIC SPORTING AND OUTING and as the body of the boattakes the water the launch

is made. By sitting comfortably on the bottom of the The old time Celtic coracle, with wicker framework boat and paddling with the feet, a progress of two or and covering of hide, has its modern successor in the three miles an hour can be made in any direction.



THE LAYMAN BOAT USED IN DUCK SHOOTINGS

larity among sportsmen and those fond of aquatic Loops are provided for awning stanchions, to give the tone them down in such a way that they will not be sports, as well as with ladies and children for use on last requirement for comfort. It will be seen that for objectionable. There are several methods of doing the seashore. The sportsman who desires to kill can the duck hunter it prefind no better ally than this noiselessly propelled craft, | sents several advantages. while those who spend the summer on the seashore or It admits of a most effectuby lake and river side can have endless pleasure in al blind being used, one of floating bubble-like on the breakers or in exploring the which is shown in one of inmost recesses of lake and "unknown river."

The Layman boat resembles in contour a horse collar. is done entirely with the It is made of India rubber cloth. The irregular ellipse feet, so that both hands determined by the sides has as bottom a strong sheet are free for the gun. Its of the same cloth, from whose forward portion two noiseless working gives boots or leg cases depend. The bottom of the boots every chance of approachare provided with collapsing paddles, which open on ing closely to the ducks. the back stroke and close on the forward stroke, as does a duck's foot. The small end of the oval is the ble can be reached by its bow. A stiff rudder strapped in one position is attached to the stern. The office of this is to keep the secured which otherwise how in front-it is not used for steering.

For its shane the host depends upon inflation with | One of the outs illus-

the cuts. The propulsion Places hitherto inaccessimeans, and game can be would escape.

portion is the pneumatic boat. When deflated the wearer is prepared to wade about or walk on land. If deep water is to be entered, a few minutes of preparation inflates his boat and he is ready for work affoat. A strap which is secured beneath the knees gives the proper position for boat work.

The fishing scene on Narragansett Bay is reproduced from a photograph from life, showing the inventor and family enjoying themselves a la Isaac Walton. near Bristol, R. I.

The cuts show the capabilities of the novel craft. It makes the user thoroughly amphibious. When afloat, a considerable load can be transported, as many as three children with an adult finding room in it. In the cut showing the use of the bind by duck shooters is also clearly shown the standing and sitting positions of the occupants. The boat, when deflated, is stowed away in a small valise, as shown in the same illustration. As regards weight, the boats vary from fifteen to twenty pounds. Owing to their compactness when deflated, they form an admirable tender for small yachts, and afford an effectual life preserver for use in cases of accident. Experiments have shown its absolute safety. Three of the compartments may be punctured and the fourth one will keep it affoat. A complete repairing outfit accompanies it in case any accident should happen. Owing to the strength of the fabric it is rarely torn.

We are indebted to Mr. H. D. Layman, of the International Pneumatic Boat Company, 851 Broadway, New York, for courtesies extended to our editor and artist in the preparation of the article and engravings.

How to Copy Engravings,

Many workers find a great difficulty in successfully Layman pneumatic boat, a wonderfully ingenious Several people can crowd into the same boat, 400 the lines and cross hatchings. These, when magnified copying engravings, so as to reduce the prominence of and successful craft which is acquiring wide popul pounds being the capacity of the large sized one. by the lantern, spoil the picture. But it is possible to



floating bubble-like on the breakers or in exploring the which is shown in one of inmost recesses of lake and "unknown river."

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For its shape the boat depends upon inflation with air. The oval sides represent two tubes, the lower one | trates a passage through of large cross section, the upper one of smaller. The Hell Gate, East River, lower one is divided by cross partitions into three compartments; the entire upper tube forms a fourth com- made without difficulty by partment. To prepare the boat for use, the sides are a party including a lady. inflated with air. This is best forced in with a blower. five minutes sufficing to inflate it. It can be inflated in three minutes by the lungs alone. When inflated, of the steamers adding to it at once stiffens up, as the sides take their characteristic oval shape, forming virtually a frame. the boat is ready for use.

the cuts. The propulsion Places hitherto inaccessimeans, and game can be would escape.

One of the cuts illus-New York, which was The experience is described as delightful, the waves the excitement. No water was shipped, the boats

As they distend, they bring the floor to a level, and proving perfectly dry and seaworthy. An interesting this, The best one is very easy to manage, so as to modification is shown in one of the cuts in the wading effectually break up those lines which appears o promi-Putting the feet into the cases and holding the boat pants, made on the general lines of the boat. These nent in skies and foreground. Cover the engraving up by hand loops, the boatman walks down the shore, are heavy Mackintosh pants, attached to whose waist which is to be copied with a thin and finely ground



FAMILY PARTY IN LAYMAN BOATS IN NARRAGANSETT BAY

piece of glass, the polished side downward. This glass must be exceptionally clean, and to insure this it should be brushed over with ammonia or nitric acid, afterward well water-washed. When the glass is in position it will be seen that the engraving, viewed through the glass, has the appearance of a pencil drawing. No lines are visible, but a general softness has taken their place. Of course it would be perfectly useless to photograph the print in this condition. To restore vigor to the important parts of the picture, go over the ground glass surface with a brush dipped in oil, painting, as it were, every portion except the sky and the immediate foreground, where the objectionable lines usually are to be seen. This operation will give the desired blackness, thus rendering the print capable of producing a first-class negative. If this method be adopted, the result will prove most satisfactory, for it will be impossible to distinguish the obnoxious lines.— Photography.

PASSAGE OF HELL GATE, EAST RIVER, N. Y., IN THE LAYMAN BOAT.

For Transparencies.

For lantern slides or transparencies, which yields tones of a peculiarly pretty warm black, varying with the particular plate used, but always of an agreeable kind:

Pyro		Ţ.					 						 L	.3	grain
Sodium sul	phite.	· . Ť .					 ,	 					-	12	**
Bromide of	ammor	nium												3	**
Carbonate	64						 						ļ.	6	**
Caustic pot	ash						 						ı	5	4.5
Water			 		 								1	1	оцисе