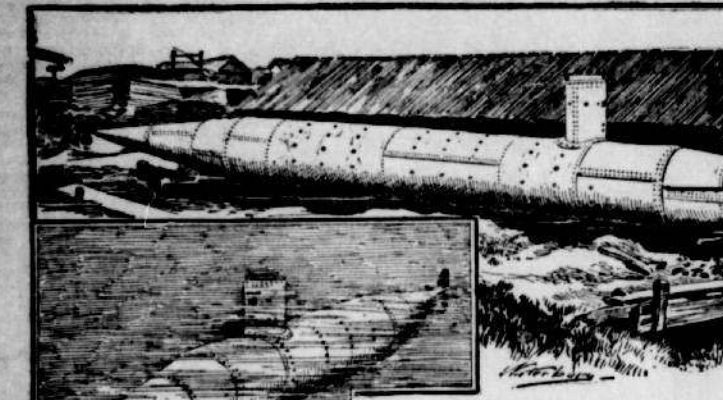


WILL DESCEND OR RISE ON AN EVEN KEEL AND HAS TRAVELED ENTIRELY UNDER WATER FOR FIVE CONSECUTIVE HOURS.

Built of armorplate and cigar shaped.

Ever since the experiments of the Dutch physician, Cornelius Drebbel, early in the eighteenth century, repeated attempts have been made by individuals and by various governments to produce a successful submarine craft.

aiming to shield them from the attention of other investigators along the same lines. Finally, the remoteness of Lake Winnebago from the seaboard and from the centers of maritime experiments is so great that until the reports of the most satisfactory tests last October, comparatively little interest has been manifested in his work.



The Raddatz Submarine Boat.

attention of the public and naval officials has centered on two new submarine boats, the Holland and Lake, named after the inventors, which have been launched at the Atlantic seaboard, final tests of which are still pending.

Richard Raddatz is the name of the inventor of this remarkable craft which has stood all tests of practical navigation and control under the water within such limits as are imposed, principally by the strength of the shell and power of the machinery.

The boat is furnished with two independent sets of machinery, one for surface and the other for submarine use. The surface machinery consists of a modified hot air engine of 50-horse power, with cylinder nine and one-half inches in diameter and 18 inches in stroke.

For submarine use a set of electric machinery and storage batteries is provided, the motor developing about 30 horse power at full speed and depending for power upon the chemical energy stored in the accumulators, which, in turn, depend upon the hot air engine for their life.

FOUND DEAD.

Why did he do it? He had everything to live for—happy home, wife, friends, money; but he shot himself through the heart.

He couldn't have given a good reason himself. But everything looked gloomy to him. He was in a gloomy frame of mind. It was the way he looked at life that day.

at present in winter quarters on the shore of Lake Winnebago, waiting for the opening of navigation in Lake Michigan. This latter vessel, the Milwaukee, is fusiform or cigar shaped, 65 feet in length.

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The early trials of the present Raddatz boat accomplished with frequent repetition of all the perils and discouraging accidents which characterized the experiments made with the first craft. Its initial season afloat was one of great success.

The three most important principles involved in the construction and operation of the boat are kept secret and are known only to inventor Raddatz and the few men who have been interested in his experiments.

The most important of these principles is that affecting the air supply. The craft is supplied with reservoirs and appliances which produce a mechanically and chemically prepared atmosphere sufficient to permit its submersion with two men on board for a period of 24 or 30 hours.

and that ordinarily breathed is that the former seemed fresher and cooler. At the end of several hours during which they were hermetically sealed in the craft they felt no unpleasant effects.

Nearly equally important and vital to the practical success of the boat are the devices employed for raising and sinking it, controlling its equilibrium and maintaining it constantly on a level keel.

Automatic appliances are made use of whenever they may be applied to advantage. One of the most interesting of these is an automatic trip attached to the bottom of the boat.

With the aid of the rudder the craft is steered either to right or left, responding as readily as if it were on the surface. It rises or falls to any level which the operator may desire.

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The cost of operating the Raddatz boat has also been closely determined by experiments made last autumn. The surface machinery is run at an expense of from two to three cents per mile.

The electric submarine motors have propelled the craft when entirely submerged at a speed of two and one-half miles an hour for a period of five hours, but without communication with the surface was found necessary.

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feeling of helplessness as he reflects what would be the result if even the smallest part of the mechanism refused to do its work.

Scarcely had the operator taken his seat when the interior of the pilot house is suddenly and simultaneously lit by incandescent light and simultaneously the familiar hum of the dynamo is heard from far back in the stern.

And then Corning made a horrible discovery. Some bright mind found out that there was a movement on foot in Horneville to secure the Rochester team as a whole to play against Corning.

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EARNINGS SHARING EXPEDIENT

A Successful Result Achieved by Mr. Alfred Dolge and His Six Hundred Employes in Solving the Labor Problem.

One of the best evidences that the labor problem is on the road to solution is the fact that never before has it been the subject of so much anxiety and earnest discussion.

But what is this labor problem, anyway? Commonly we hear it described as the problem of how to suppress strikes and lock up strike leaders; how to put down riots, how to make laborers contented forevermore with what they now get, and so on.

It is acutest in England and the United States, and these countries have done the most for its solution. Efforts to deal with it have been both public and private.

This is not a profit-sharing scheme. Mr. Dolge recognizes the fact that profits are directly the employer's income, determined by economic law, and hence that any plan of sharing them can rest only on the optional good will or philanthropy of individuals.

The system has three distinct features: Life insurance, endowment and pension. The life insurance plan is this: Every employe entering the service at any time after 20 years of age, who has served five years continuously after the age of 21, is entitled to a life insurance policy of \$1,000, and after 10 years of service a second policy for \$1,000.

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This endowment plan is perhaps less satisfactory than the other features, as it is dependent entirely on the state of business, and approaches so nearly to the out-and-out profit-sharing idea that it can be made an automatic part of the wage system.

From 1874 to 1897, inclusive, a total of \$12,725.26 has been paid out in pensions. Employees whose regular wages exceed \$1,000 a year, are pensioned on a \$1,000 basis; that is, if disabled after 13 years' service, they would receive \$600 annually, and so on up to \$1,000 after 25 years' service.

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Alfred Dolge.

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