

Held for Sweetheart's Death



Stanley Curtis, 16 (left), of Gloucester, N. J., is being held in the county jail at Camden, N. J., charged with the murder of his sweetheart, Betty Ross, also 16.

Unbounded Energy From Air Inventor's Dream

BERLIN. (AP)—The sailing vessel of the future will be without sails if the new invention of Dr. Anton Flettner, known as the Flettner rotor, proves to be all that is claimed for it.

In stead of wooden masts, rigging and sails, the new equipment will consist only of metal masts, resembling some stacks, revolved on their axis by a motor. Experiments with a 650-ton hull, fitted as above, have shown that with one-fifth of the weight of the customary masts and sails the rotor ship can develop 15 times the wind power of the ordinary sailing vessel. The rotor ship does not have to be hauled out of the harbor by a tug. It starts the minute the cylinders, driven by a small Diesel motor, begin to rotate. This motor can be handled by one person on the bridge, and all the crew formerly necessary for sailing can be dispensed with. From an economic standpoint the inventor claims that for 20 to 30 per cent can be saved on fuel if the rotor device is installed.

Interest High.

The Hamburg America Line has ordered the construction of a 10,000-ton freighter which is to sail with rotors instead of sails, and the whole shipping world is inquiring into the adaptability of the invention to passenger ships.

The principle on which the new ship operates has been explained by Herr Freudenberg, Dr. Flettner's right-hand man, as follows:

"Supposing a current of air strikes a smooth cylinder, such as a smokestack or the cylinder of our rotor, what will happen? The air will pass to the right and to the left of the cylinder about evenly. Now suppose one-half of the cylinder were covered with some rough surface, such as sandpaper, what would happen? The air current, following the lines of least resistance, would pass off toward the smooth side, and only very little of it toward the roughened side."

Principle Explained.

"In other words, the air current will go where there is least resistance to it. Suppose next that we begin to turn the smooth cylinder by some mechanical means, such as an electric motor. As it revolves, one side of it, the disappearing side as you look at it from the front, will be moving in the same direction in which the air current is moving, while the other side will run counter to the air current. Naturally the air, following the lines of least resistance, will pass off toward the side where the cylinder turns with the wind. It follows that if the cylinder is turned faster than the velocity of the wind, there is absolutely no friction on the one side for the air, and the whole current will be deflected to that one side with such violence and with such crowding together of current that suction occurs on the side revolving with the wind, while on the side coming up against the wind a pressure against the cylinder is produced.

"This combination of suction on one side of the cylinder and of pressure on the other forces the ship forward, and sails can be dispensed with."

The revolving or rotating cylinders are mounted on strong masts

of steel. In the case of the experimental ship Buckau, the steel masts projected above the deck for a distance of 40 feet, while the cylinders which are set upon the pivotal masts like hoods were 2 feet higher. They revolved about the pivots on ball bearings and turned noiselessly. The motor, using only 2 per cent of the power that would be needed to drive the ship with a propeller, can turn the cylinders at the rate of about 120 revolutions a minute. In the case of a sailing vessel therefore, 95 per cent of the power is produced by the wind acting upon the cylinders, while only 5 per cent is contributed by the small motor that one person can attend to.

The rotor ship can be made to reverse its direction by merely reversing the motor. To turn the boat about, one cylinder is made to turn in one direction and the other in the opposite, just as in rowing one turns by pulling at one oar and pushing the other.

The fact that the changes of speed or the reversing of the motor can be done instantly, makes it possible for the new ship to ride a storm quite as easily as it moves in clear weather.

The Flettner people look upon the rotor ship as a mere beginning along the road of gaining energy from the air. Some day the wind may be giving us heat, light, and power, Dr. Flettner observes. He is therefore at work on the construction of a windmill or wind tower which, if perfected, will mean that the American farmer can reduce his coal bill to a minimum, and take energy out of the air. It will mean, the inventor declares, that flying across the ocean will become a simple thing, for instead of running the risk of getting out of fuel the aviator will draw his energy from the wind.

Salem Mercury Up to 31.

SALEM, Ore.—Following last night's snowfall the temperature moderated here with the result that the thermometer registered 31 degrees above zero. This was approximately four degrees higher than was recorded yesterday. Lower temperatures were forecast for tonight.

Although snow fell to a depth of more than three inches in many sections of Marion county no damage resulted here. Street-car lines were kept in operation throughout last night and automobile stages were operating on schedule.

Club Leader Dropped.

ONTARIO, Or.—Malheur county will be without the services of a club leader for the boys and girls' clubs during 1925 as the result of the action of the budget board at its meeting in Vale. The board eliminated from the budget the appropriation of \$850 for cooperation in maintaining the service.

The budget board retained the market road levies and added to the road program by appropriating \$6500 for a road from Harper to Juniper, the route of which will be on the north side of the Malheur river, through the Malheur canyon, arrangements are also made for financial cooperation with the state and federal highway departments for the completion of the John Day highway in Malheur county.

TONIGHT

TOYS

Half Price

TOYS

It has been our practice never to carry over toys to the following year

--We are not going to do it now --Tonight any toy in our stock will be sold at

HALF PRICE AND LESS

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If you have not bought buy now at

Half Price AND LESS

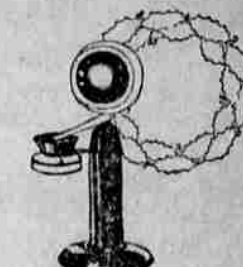
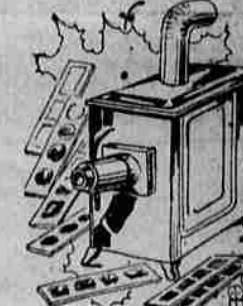
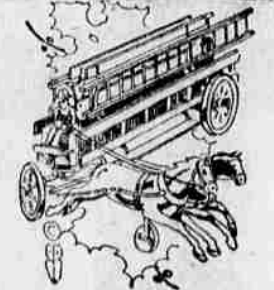
\$4.50 Mechanical Toy	\$2.25	\$2.00 Blackboards	\$1.00
\$5.00 Doll for	\$2.50	\$4.00 Steel Trains	\$2.00
\$3.50 Toy Auto	\$1.75	\$1.25 Wind Toys	65c
\$9.00 Motion Picture Machine	\$4.50	\$1.00 Games	50c

DOZENS MORE BESIDES THESE MENTIONED

WHILE THEY LAST—

CARR'S

HALF PRICE and LESS



Hagenbeck Returns "on Back"



Lorenz Hagenbeck, world famous animal trainer, who sustained a fracture leg in a fall in Berlin, has returned to Hamburg, Germany, to convalesce. He was carried to train in Detroit and then to the home in New York on a stretcher, and was immediately put to bed in his apartment.

Notice of Final Settlement.

Notice is hereby given that the undersigned has filed in the County Court of the State of Oregon for Union County his final account in the matter of the estate of John S. Elliott, deceased, and that said court has set Thursday, the 15th day of January, 1925, at ten o'clock A. M., at the courthouse of said county, Oregon, as the time and place for hearing objections to said final account and for the settlement of said estate.

Dated this 17th day of December, 1924.

J. F. 1914,
Auxiliary Executor of the Estate of John S. Elliott, deceased.

Witness my hand and seal this 17th day of December, 1924.

Notice to Creditors.

In the Matter of the Estate of John M. Scott, deceased. Notice is hereby given by the undersigned, administrator of the estate of John M. Scott, deceased, to the creditors of and all persons having claims against the said deceased, to exhibit them with the necessary vouchers, within six months after the first publication of this notice, to H. J. Kitchen, attorney for the administrator, at his office in the

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There are unavoidable illnesses.

Regular physical examinations, however, would do away with a great percent of our sickness. Through them any health menace is found in its incipient stages and corrected before it impairs our efficiency.

Such examinations are of value only when made where every scientific equipment is complete.

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Dr. W. T. Phy.

Owner and Director.