

**ROTORSHIP MAY TAKE
PEACE OF SAIL, STEAM**

**New Invention Of German
Promises To Revolutionize
Industry And Make Ship-
ping Less Costly.**

BERLIN, Dec. 29.—(By Associated Press.)—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. Instead of wooden masts, rigging and sails, the new equipment will consist only of metal masts, or revolving smokestacks, revolved on their axis by a motor. Experimenters with a 550-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 fifteen times the wind power of the ordinary sailing vessel. The rotor ship does not have to be hauled out of the harbor by tugs. 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 that is necessary for sailing can be dispensed with. From an economic standpoint the inventor says that from 30 to 80 per cent can be saved on fuel if the rotor device is installed.

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 practicability of the invention to passenger ships.

Principle Of Operation.
The principle on which the new ship operates has been explained by Herr Flettner, 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 sand-paper, what would happen? The air current, following the rough surface, would pass off toward the smooth side, and only very little of it toward the roughened side.

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 towards the side where the cylinder turns with the wind. It follows that if the cylinder is turned faster than the velocity of the current, 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 vehemence and with such crowding together of current that suction ensues on the side revolving with the wind, while on the side coming up against the wind a pressure against the cylinder is produced.

Goodbye Sails.
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, Bugkat, the steel masts projected above the deck for a distance of forty feet, while the cylinders which are set on the pivotal masts like hoods, were 25 feet higher. They revolve about the pivots on ball bearings and turn noiselessly. The motor, using only two 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 110 revolutions a minute. In the case of a sailing vessel, therefore, 98 per cent of the power is produced by the wind acting on the cylinders, while only two 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 around 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 instantaneously, makes it possible for the new ship to ride a storm quite as easily as it moves in clear weather.

The Flettner people look on 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.

**New Books At
Public Library**

Dressmaking.
"Clothes That Count and How to Make Them," by Bradda Field. Contains the fundamental rules of dressmaking that never change. Covers all problems of dressmaking from "How to Equip the Work Room," through the various kinds of stitches and trimmings, to Renovations and the Care of Clothes.
"The Well-Dressed Woman," by Anne Rittenhouse. This is not a book of present fashion, but of the fundamental principles of dressing in every age. Contains three chapters by Jean Worth on the philosophy of clothes and good taste, and the ten precepts of Paul Poiret.

Home Economics.
"Economics of the Family," by Taber and Wardall. While the book may also be of practical use in the home, the subject is approached from the high school student's point of view.
"Scientific American Home Owners' Handbook," by Austin C. O'Connor. Contains a vast fund of useful information for the man who is planning to buy or build a home, and for that same man when he becomes a home-owner in fact as well as in desire.
"Table Decorations for All Occasions," by Edna S. Tipton. This comprehensive volume covers table decoration for all the ordinary holidays, for all kinds of parties, including bridge and mah jongg, anniversaries, showers, weddings, luncheons, afternoon teas and many other occasions.
"What is Man?" by John Arthur Thomson. A summary of the present state of scientific opinion on man, suitable for unscientific readers. Man's pedigree, his fossil history and the evolution of the human mind are discussed in separate chapters.

Fiction.
"Around the Corner," by Gilbert Cannan.
"Carson of Red River," by Harold Bindloss.
"Colour of Youth," by V. H. Friedlander.
"Fire in the Flint," by Walter F. White.
"Following the Grass," by Harry Sinclair Drago.
"Lady of Pentlands," by Elizabeth Jordan.
"Peacock Feathers," by Temple Bailey.

Children's Books.
The following books have been received for circulation in the children's room:
"The Pie and the Patty Pan," by Beatrix Potter.
Beatrix Potter's story-pictures of little animals who do human things are well known and well loved by children.

Poetry.
"The book of Mother Verse," by Joseph Morris. A book of poems, which enshrining motherhood including selections from such well-known writers as Rile, Field, Guest, Foes Kipling and Van Dyke.
"The Skyline Trail," by Mary Carolyn Davies. A book of western verse; about the cowboys and the riders of the range; the roses of Oregon; Portland by day and by night; with the miraculous beauty of Mount Hood; the trees and lakes of the west.

Science.
"Chemistry in the Twentieth Century," by Armstrong. A survey of modern chemistry by British experts, covering such subjects as rays analysis, structure of the atom; alloys; flame, fuel and explosions, etc.
"Daedalus, or Science and the Future," by H. G. Wells. A modern scientist forecasts the new discoveries which may be expected and their application to the increase of human happiness. He predicts a gradual improvement through the solution of the power, food, and social problems of mankind.

"Fearus, or the Future of Science," by Bernard Arthur William Russell. A bold forecast tracing the sinister influence of science on the world, and showing the danger, which may arise from its exploitation.
"The Wind," by Ethel Cook Elliot. An unusual and lovely story for the older children who are still in the fairy tale age.

"Bible Stories to Read and Tell," by Frances J. Dcott. Old Testament stories to read or tell in Bible language. The best collection of the sort. For children 4 years to any age.
"Little Missy," by Maud Lindsay. A charming picture of the old south told by a little girl whose father owned a great plantation and many slaves in Alabama.

"Wreck of the Grosvenor," by W. Clark Russell. Russell was a past master in the writing of sea yarns and his stories, full of wrecks, pirates, mutineers, and dangers on the salt sea waves, have delighted boys and their fathers for many years.

WINTER IN FLORIDA.
ONSLOW, Dec. 29.—Fourteen folk from Onslow will spend the rest of the winter in Florida. Mr. and Mrs. Arch K. McMaster left Saturday to spend the winter there. Mr. and Mrs. O. C. Johnston left today for Tampa. Mr. and Mrs. W. C. Paul and their daughters, Vera and Mrs. Smith, will start Jan. 1 for St. Petersburg. Others left earlier in the season.

IN BANKRUPTCY NO. 142.
In the District Court of the United States for the Northern District of Iowa, Cedar Rapids Division.
In the matter of Ross Wilson, Bankrupt.
To the Creditors of above named Bankrupt of Palo, Linn County, Iowa.
Notice is hereby given that on the 20 day of December, 1924, the above named was duly adjudicated a bankrupt, and that the first meeting of creditors will be held at the law office of M. W. O'Rielly, at 701-705 Higley building, Cedar Rapids, Iowa, on the 8th day of January, 1925, at 9 o'clock a. m. at which time the said creditors may attend, prove their claims, appoint a trustee, examine bankrupt and transact such other business as may properly come before said meeting.
Dated at Cedar Rapids, Iowa, December 26th, 1924.
M. W. O'RIELLY,
Reference in Bankruptcy,
Stewart, Penningroth & Holmes,
Attorneys for Petitioner.

RETIRED FARMER DEAD.
Special to The Gazette.
SHELLESBURG, Dec. 29.—Charles Evens, a retired farmer, died at his home following a few weeks' illness from neuritis and complications. He was born Feb. 17, 1852 in Pennsylvania. After a short residence in Michigan he came to Shellsburg and in 1872 was married to Miss Olive Blackburn.
After leaving the farm, Mr. Evens worked at the carpenter trade and was stricken while employed in building a barn on the Julius Shorny farm. Four children and twenty-two grandchildren survive. The children are Mrs. Eva Henry, Clarence Dan and Jesse Evens all of Shellsburg.

**MAJESTIC
NEW YEARS
FROLIC**
Wednesday, 10:30 p. m.
Regular Prices
Just For Fun

IOWA DEATHS

FORMER ONSLOW MAN
Special to The Gazette.
OSLAW, Dec. 28.—William Neelan, aged about 55 died at his home near Ruthon Minn. Mr. Neelan was born and reared near Onslow, and lived here most of his life until moving to Minn. six years ago.

He was a member of the Onslow lodge of Masons. He is survived by his wife, Lou Reed Neelan, two sons, Howard and Russell, of Minn., and a brother, John Neelan, nee Neelan, of Minn. He was also survived by two sisters, Mrs. Robert Scroggie of Mount Vernon, and Mrs. Elizabeth Knitt of Waterloo.

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Defined.
"Nerve," Roger writes. "is trying to sell accident insurance to the man you've just grazed with your car." Boston Transcript

**Sale Starts
Tuesday
9 A. M.**

Palais Royal
WOMEN'S OUTFITTERS

113 South Second Street.

**Sale Starts
Tuesday
9 A. M.**

Values Which Bring Unsurpassed Savings Opportunities in

Our Annual After-Christmas Sale

Sacrificing our entire winter stock of high grade garments for misses and women. Owing to a backward season our stocks are heavy, the assortments complete and the cuts are deep. Early shopping is recommended.

You Will Find Just What You Want in This

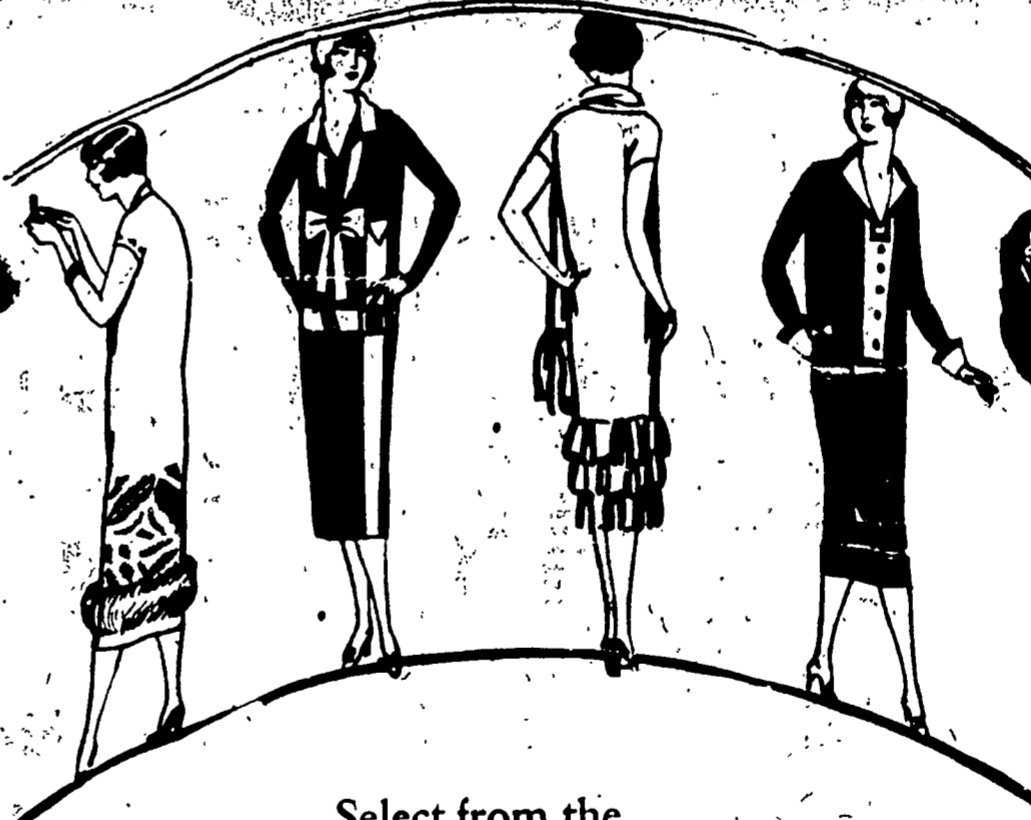
SALE OF COATS

Values to \$85 Values to \$125 Values to \$150

\$39 \$59 \$79

These Coats of unexcelled quality and typical "Palais Royal" distinction at these prices represent the ultimate in value giving.

To Close Out
30 SPORT COATS \$10
Values to \$35



Select from the
Leading Modes of the Season in this

SALE OF DRESSES

**Closing Out
Entire Stock
of
SWEATERS
And
Silk Blouses**
At
**HALF
PRICE**

There is no sacrifice of smartness in choosing these lovely frocks at their remarkably reduced pricings. The modes are all new this season—and now at the height of their vogue. That they are from our own regular stock attests their desirable quality and workmanship. And that they are notably unusual even in this clearance sale attests their extraordinary value.

Values to \$50 **\$19** Values to \$65 **\$29** Values to \$79 **\$39**

Dresses for Every Occasion including Formal and Semi-formal Gowns

To Close Out
35 DRESSES Silks & Wool \$9
Former values to \$35