

PURDUE STEAM STUDY TO BRING BETTER ENGINES

Turbines, Power Generating Equipment Expected to Be Improved.

Times Special
NEW YORK, Dec. 5.—Working with steam heated to 1000 degrees, Purdue University staff members reported at the annual meeting of the American Society of Mechanical Engineers new facts which are expected to mean improvement of turbines and steam power generating equipment.

Submitted by G. A. Hawkins, the report covers a project conducted in collaboration with Dean A. A. Potter and Prof. H. L. Solberg.

Viscosity of water and superheated steam, Mr. Hawkins told the society, is the resistance of the fluid to flow, and has been a problem confronting designers of steam-producing and power equipment.

Not Much Known Before
Until the investigation was undertaken at Purdue, he said, viscosities of water were known for temperatures only up to 320 degrees, and of superheated steam for pressures only as high as 135 pounds per square inch.

In the tests at Lafayette, he explained, viscosities of water were determined for as high as 706 degrees, after which the element loses liquid form, and for steam at pressures as high as 3500 pounds per square inch. Steam at high pressures, Mr. Hawkins stated, increases in temperature and the high point reached, 1000 degrees, turned the pipes red.

Viscosities of the superheated steam, he revealed, were determined by timing the speed at which a steel body fell through an accurately bored stainless steel tube, containing steam at varied pressures and temperatures. Because it was impossible to observe the movement of the body, its fall was measured by using a three-stage radio amplifier in an electrical circuit, which traced the movement on a chart driven by an electric clock.

TOWN DADS FACE CRISIS

Police Force of Two Resigns; New Year's Resolution in Order.

Times Special
KNIGHTSTOWN, Ind., Dec. 5.—It may be early, but the Town Board here is pondering a New Year's resolution. At their last meeting members accepted the resignations of Day Marshal Charles Clark and Night Marshal Andrew Judd. Since both officers are quitting Dec. 31, the board must either "resolve" successors or leave the town with no police protection for 1936.

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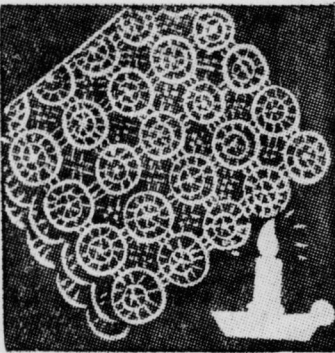
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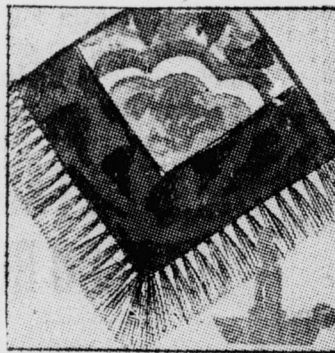
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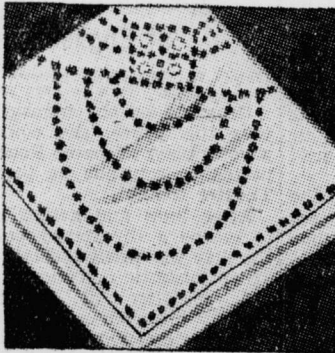
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Each scarf hand made by skilled artists. Choice of many colors. Red, green and brown predominate color scheme.



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Bedsreads

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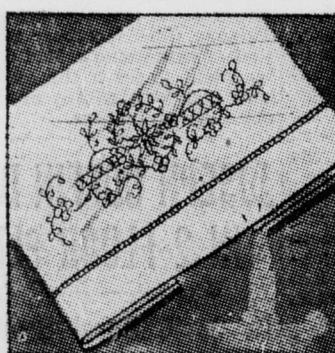
A lovely candlewick pattern with lots of tufts in blue, red, green, gold and combinations of brown and gold, brown and rust.



Size 72x84
Beacon Blankets

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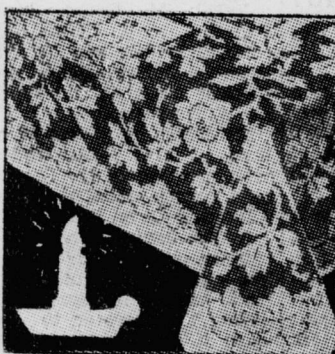
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Embroidered Pair
Pillowcases

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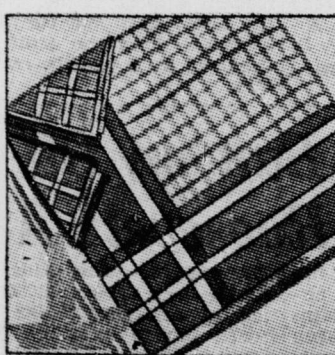
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For Dancing	Royal Blue	Dark Brown
For Dining	Blue	Chocolate Brown
For Evening	Green	Matelasse
Bar Dresses	Orange	Stardust
Shirtwaist Types	Gray	Satin
Tailored Types	Gold	Crepes
Navy	White	Alpacas
Black	Pink	Taffeta

—Downstairs at Ayres.

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—Downstairs at Ayres.