

Ceramics Find Place In Space Travel Age And Stock Market

By ELMER C. WALZER
United Press Financial Editor

New York — A new material has been added to the lexicon of the atomic and space age.

It is ceramics. Ceramics is the art of making articles of baked clay such as pottery and tiles. And things made of earthware are ceramics.

Elmer Waizer Webster says these are the ways of using the word in singular and plural. How does this ancient art of pottery pitting fit into space travel and the atomic age? Each involves soaring temperatures and ceramics can stand them better than other materials.

The Fitch Survey describes how ceramics are used as atomic reactor shields, in atomic fuels, for coating of earth satellites, in rocket nozzles, and in parts of intercontinental ballistic missiles.

Bad Features
Ceramics in addition to their heat resistance are highly resis-

tant to corrosion. But they do have bad features, mainly their tendency to shatter and their inability to bend.

The shattering tendency is overcome by combining ceramics with metals to form what are called ceramats. And some success is reported in making compounds of ceramics that will bend.

How does ceramics fit into stock market news? As in all the developments of nuclear energy, missiles and other new things in the world, many companies are involved in the making and refining of ceramics for particular jobs in the space age.

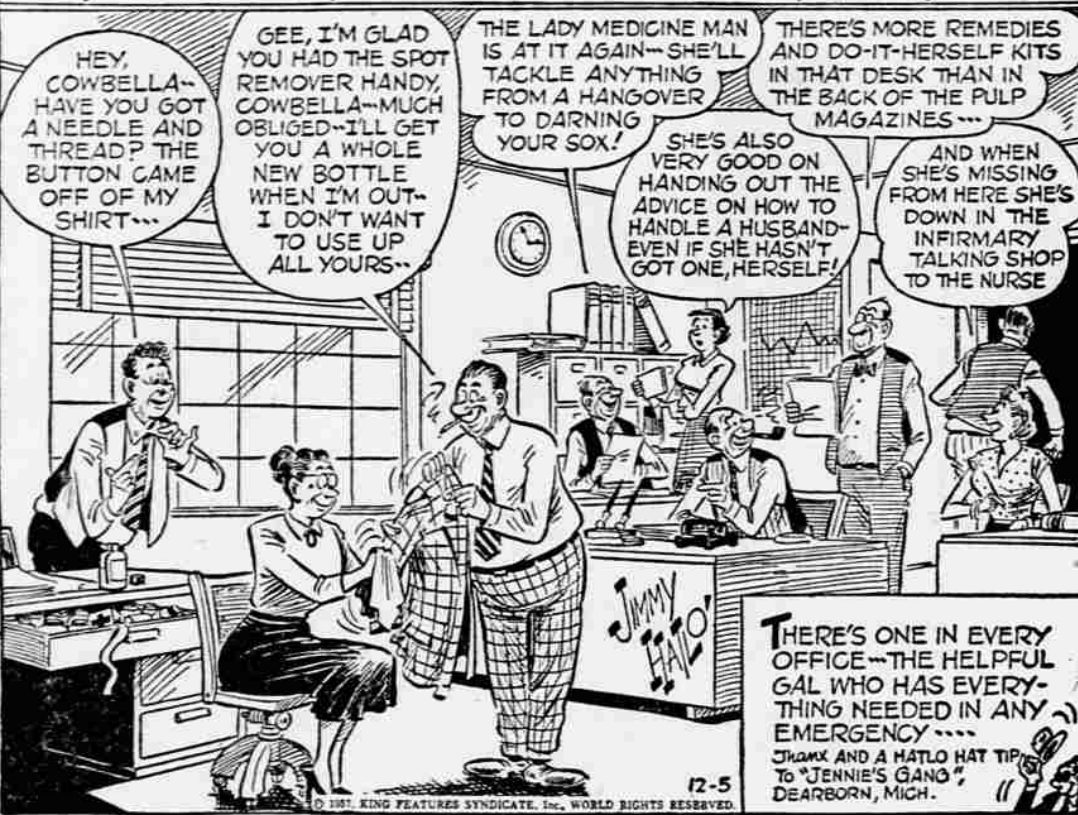
Minnesota Mining and General Electric have programs for ceramic fuel development, according to Fitch.

Gladling, McBean and Co. recently announced it has completed the first ten prototype high-alumina ceramics radomes under an Air Force development contract.

High Heat Resistance
Bettling Corp. has developed ceramic coatings that can withstand temperatures of 2,500 degrees Fahrenheit and up. Avco Manufacturing is reported test-

They'll Do It Every Time

By Jimmy Hatlo



ing ceramics on ICBM work.

Babcock and Wilcox has produced "Kaowool," a ceramic fiber similar to glass wool. The Carborundum Co. makes "Fiberox." Dow Chemical's magnesium oxide is said to be the most blendable ceramic so far found.

expected to be used in radomes, the nose cones of guided missiles.

As industry and science developed ceramics for space and general atomic use, new uses also may be made of ceramics in other industries. These include electronic devices used in automa-

tion, various types of insulation, and myriad others—an age-old industry gone modern.

BAND NOTE
Lincoln, Neb. — A swing band at the Nebraska Penitentiary is known as "The Felonaires."

Thursday, December 5, 1957

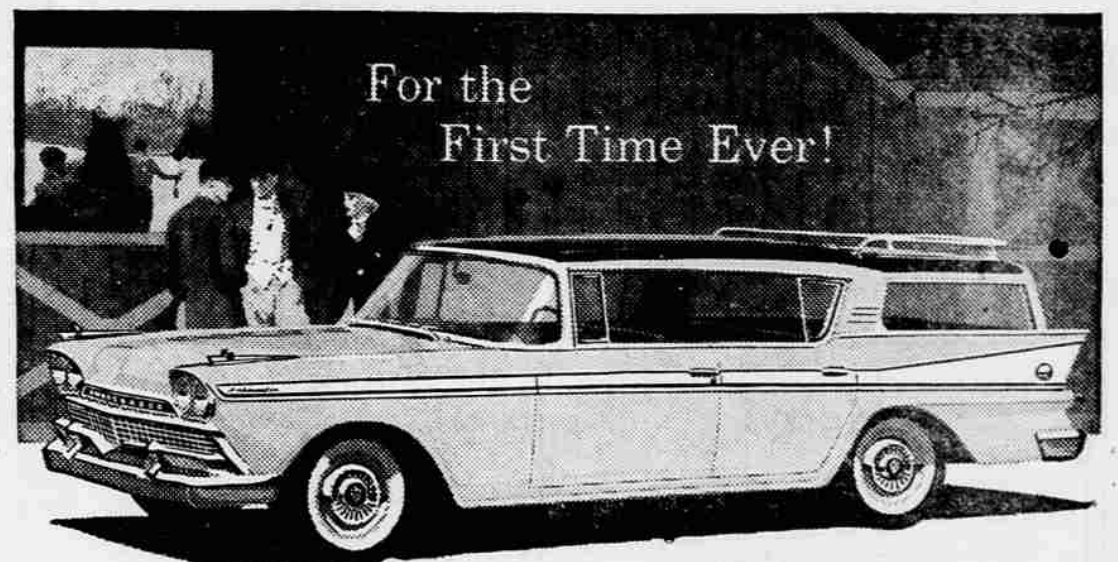
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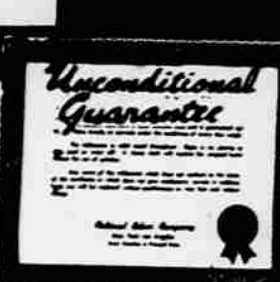
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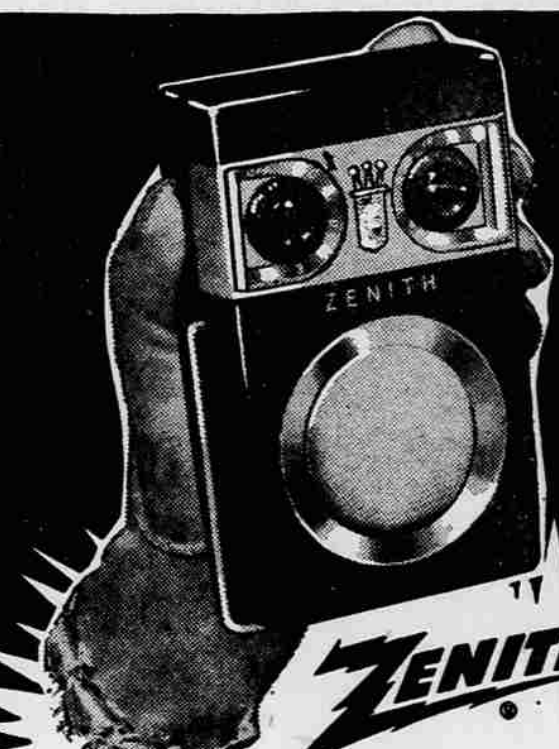
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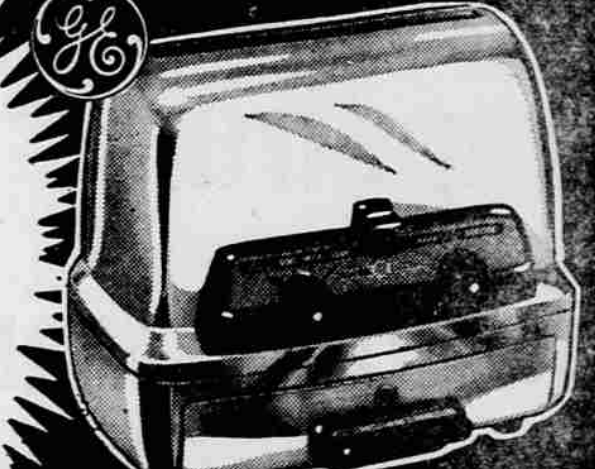


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