

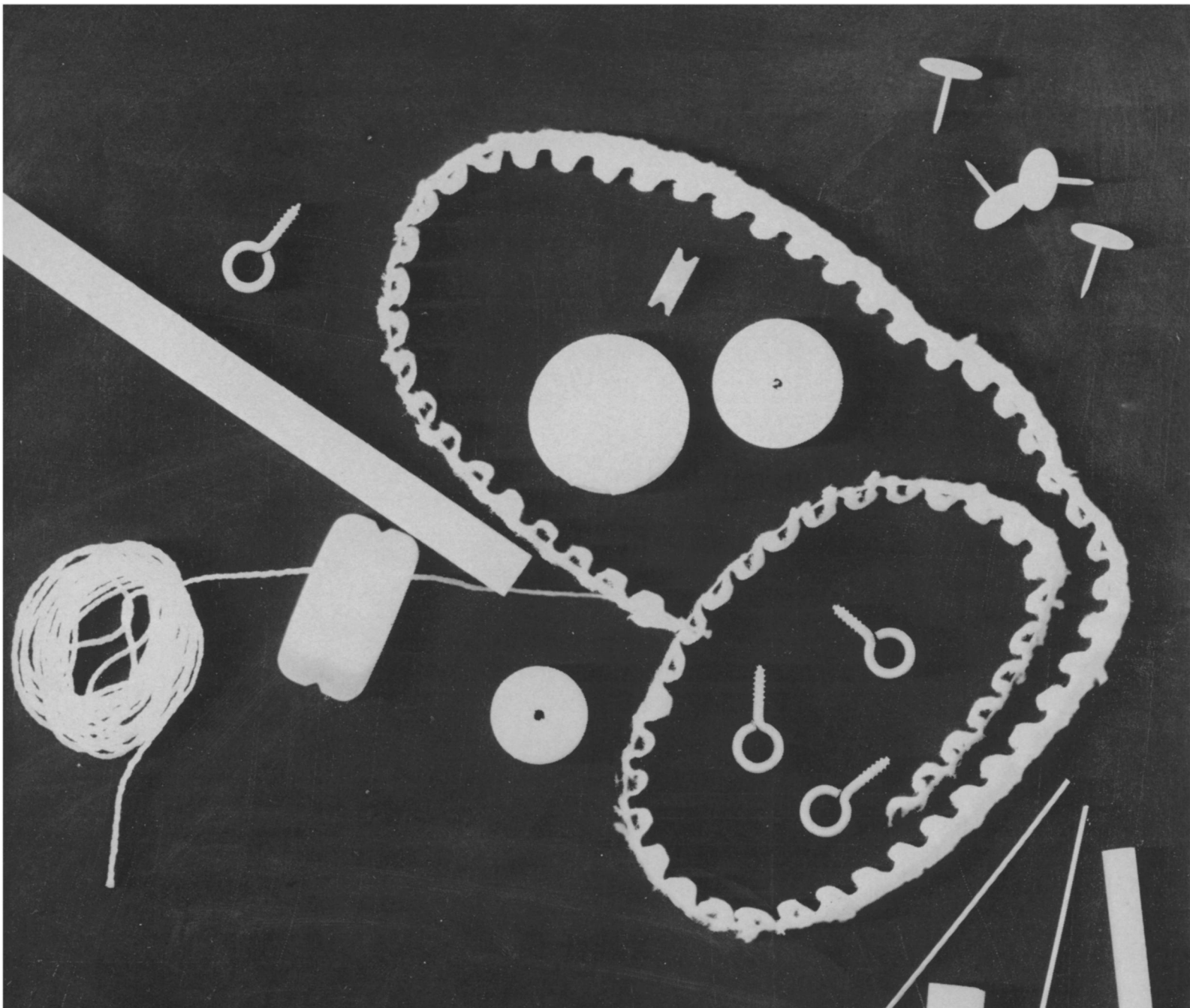
science news

Sept. 19, 1970 **25c**

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the sun's
violence**

Humanism invades psychology





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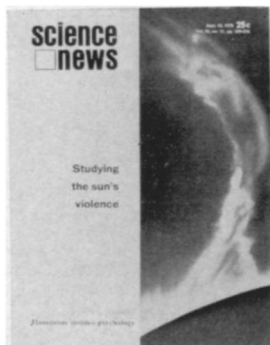
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A greater understanding of solar activity is being obtained by the RAE-I satellite through its explorations and recordings of the radio frequencies of sun storms and bursts. See page 258.

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september 19, 1970

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Unmask this man and you'll find a scientist who crushes cars with mathematics.

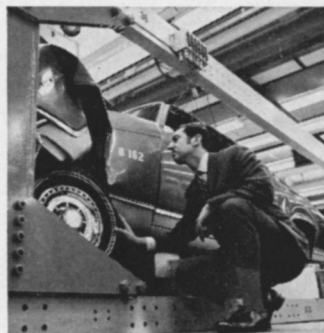


As a part-time fencer since his college days in Istanbul, Dr. Mounir Kamal has become more and more skillful at parrying the saber blows of an opponent.

As part of a safety team at the GM Research Laboratories in Warren, Michigan, he's become more and more accurate in duplicating car crashes on computers.

The team started by observing results of

actual crash tests. From that they prepared mathematical models of actual



cars, derived a set of equations describing the forces and deformations of a crash, and then wrote computer programs for the solutions. On a computer, it's possible to simulate the impact of a vehicle against a barrier and evaluate automobiles with experimental parts.

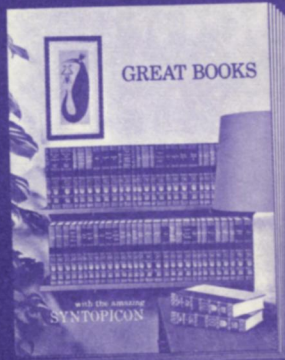
The research team can then predict which designs will offer the most protection to an occupant of the car in case of an accident.

With the help of Dr. Kamal, and many other interesting GM people, safety is fast becoming a science.

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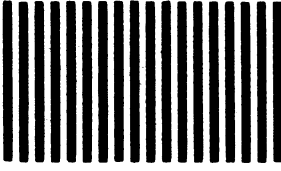
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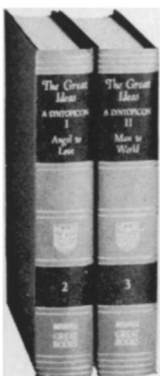
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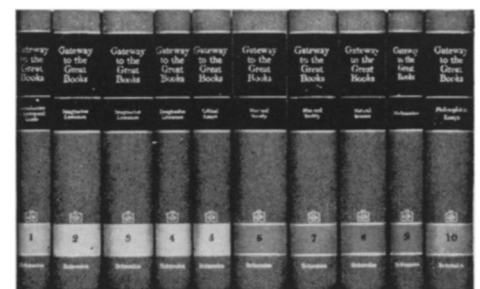
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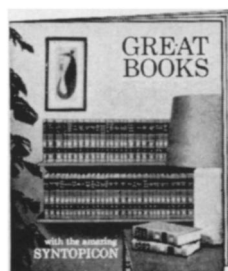
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