

MEDICINE

Drug Dilates Closed Arteries in Arms, Legs

► **GOOD RESULTS** with a new drug for relieving spasm and blocking of arteries in arms and legs are reported by Drs. J. Manly Stallworth and Joseph V. Jeffords of Charleston, S. C., in the *Journal of the American Medical Association* (June 30).

The drug is called azapetine, or Ildidar.

Among the 52 patients treated, some had thromboangiitis obliterans, or Buerger's disease. Others had arteriosclerosis obliterans, a kind of artery hardening in which the small arteries in legs and arms, feet and hands may be completely closed by the thickening of the artery walls. In some patients, the arteries were closed in spasm.

The drug can be given either by mouth or by injection into the veins. The vein injection immediately dilated the arteries in seven of ten patients. The doctors think this can be used as a test to tell whether the patient will benefit from taking the drug by mouth or from a nerve cutting operation, sympathectomy, also done to relieve the closed artery condition.

The improvement in the patients was shown by better circulation, relief of symptoms and by tests of skin temperature among others. Not all patients were helped.

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PSYCHOLOGY

Understanding Not Key To Marriage Happiness

► **HAPPINESS** in marriage does not depend upon understanding your wife (or husband), Dr. Raymond J. Corsini of the University of Chicago found in a study of 20 university student couples.

Happiness is associated, he observed, with similarity between husband and wife in the way in which they see themselves.

For a marriage to be happy, it is important that the husband be a stereotyped or conforming individual. Thus, there is good reason for the familiar plea of the unhappy wife, "Why can't you be like other husbands?"

It is not at all necessary, however, for the wife to be like other women.

Although it is important for husband and wife to be alike at least in their own views of themselves, actually husbands are no more like their wives than are unmarried couples picked at random.

Dr. Corsini found no evidence at all that happiness in marriage is a function of understanding in the sense of being able to predict how your wife (or husband) will size up her (or his) own personality. Furthermore, he found no evidence that understanding between husband and wife is greater in cases where the married persons are similar.

Results of the study are reported in the *Journal of Abnormal and Social Psychology* (May).

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TECHNOLOGY

New Gas Turbine Bus

► **A NEW TYPE** of bus will be built as soon as the countries of the world have roads to take it.

Dr. A. Viberti, head of the Viberti Motor Company, Turin, Italy, has designed the "Golden Dolphin," which is to have a gas-turbine motor and be capable of cruising smoothly at 125 miles per hour.

The new coach is to have several revolutionary features. It is to be built entirely of plastic; the whole coach will be roofed over with polarized glass, so that passengers will have an uninterrupted view of the scenery without having to worry about the

The plastic construction will make for extreme lightness, but give the same strength now associated only with metal construction. The coach is to be air-conditioned, and the design includes arrangements for radio-telephone and television.

In the deluxe version, the comfortable armchairs can be turned so that passengers can play a game of cards or enjoy a round-the-table talk. Other equipment planned includes a refrigerator, a coffee-machine and a buffet.

The suspension of the coach will be independent on all four wheels, incorporating



GOLDEN DOLPHIN—This gas-turbine motor coach will carry 18 passengers and will be capable of running 125 miles an hour.

glare of the strongest sun; and the deluxe version will accommodate only 18 passengers, seated in individual armchairs that can be inclined or swiveled at will.

The driver's seat is in the center of the front of the coach, which will have doors on both sides so that it can be operated in any country in the world.

a balancing system for the expected high speeds.

Special tubeless tires have been designed for use on the "Golden Dolphin." The gas-turbine motor, which is being built by Fiat, will be mounted under the floorboards just over halfway to the rear of the coach.

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TECHNOLOGY

Use Sugarcane Waste

► **PAPER** made from sugarcane can help solve the shortage of pulpwood for paper-making, the U. S. Department of Agriculture has reported.

A fibrous residue of sugarcane stalks, known as bagasse, is already being made into newsprint. Now Agriculture scientists at the Northern Utilization Laboratory, Peoria, Ill., have found an economical method for making other grades of paper from the waste product.

The new process separates bagasse fibers from the pith, which gives greater strength to the fiber for use in making fine bleached papers, stationery and packaging materials.

Bagasse papers are stronger than softwood papers in all but tearing resistance. They

are particularly suited for blending with wood pulps to make many different kinds of paper products.

The pith remaining after the bagasse fiber is extracted has an excellent ability to absorb blackstrap molasses. This makes the pith a convenient carrier for molasses used as feed, estimated at nearly a billion gallons a year.

"More than 70% of the blackstrap molasses now produced in this country could be mixed with pith from waste sugarcane stalks, as an integral part of sugar production operations, to produce a solid, easily transportable, high-energy feed ingredient that livestock relish," the scientists said.

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