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ENGINEERING

## **Apartments to Have Built-in Air-Conditioners**

➤ BUILT-IN AIR-CONDITIONING by individual units without "boxes" in every apartment window is being installed in a Park Avenue building in New York.

The conditioner units, made by Amic Manufacturing Corporation of Long Island City, are in the building's walls. Only the louvers, which are flush with the wall and through which the hot air is drawn, can be seen from the outside.

Each independently serviceable unit works under its own power and can be controlled by each apartment's occupants. The units are less expensive than a single central unit, the manufacturer claims.

Science News Letter, August 6, 1955

PHYSICS

## **New Method for Spotting Different Oils in Pipelines**

➤ A NEW METHOD for spotting where one kind of oil is followed by another flowing in a pipeline, by bombarding it with neutrons, or uncharged atomic particles, is being developed.

Drs. D. B. Smith and G. R. Church of Britain's Atomic Energy Research Establishment, Harwell, said preliminary tests showed that, using neutrons, the difference between premium and commercial grade fuels can be spotted by a five percent change in reading.

The neutron method, they pointed out in Nature (July 30), has "great" advantages over standard radioactive methods. It does not involve "the inconvenience of handling radioactive material in solution, or the necessity of obtaining a regular supply of radioactive isotopes."

Present methods of locating the point where one kind of oil changes to another in pipelines are based either on sampling the flowing oil or labeling the point of change with radioactive substances.

Difference in the hydrogen content of oil causes changes in reflected or absorbed neutrons that can be measured by standard equipment.

Science News Letter, August 6, 1955

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