# DEFENSIVE PUBLICATION

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**T909,019**

### NUCLEAR CORE INLET FLOW ARRANGEMENT

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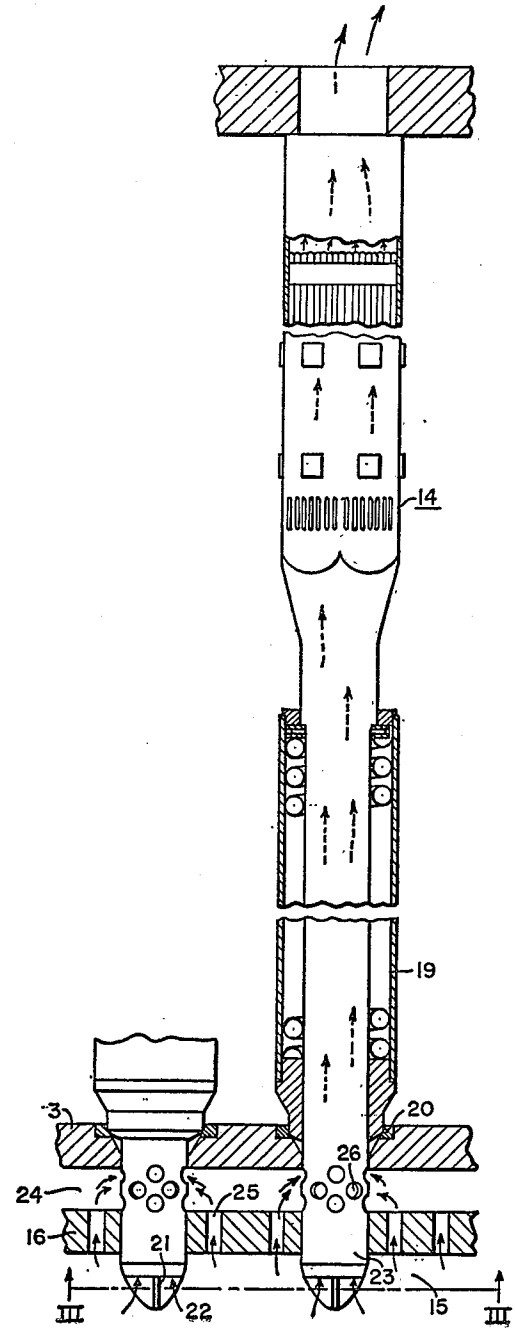
**U.S. Cl. 176—61**
**1 Sheet Drawing. 11 Pages Specification**

A nuclear core arrangement for admitting reactor coolant into nuclear reactor fuel assemblies. Inlet nozzles having main and alternate inlets are attached to the fuel assemblies. Each of the nozzle inlets receive reactor coolant from a separate flow plenum. The flow plenums are arranged in parallel and are separated by a perforated sealing member. Should the main inlet to the fuel assembly become clogged by debris, the alternate inlet supplies the fuel assembly with reactor coolant.



April 17, 1973 J. F. PATTERSON, JR T909,019

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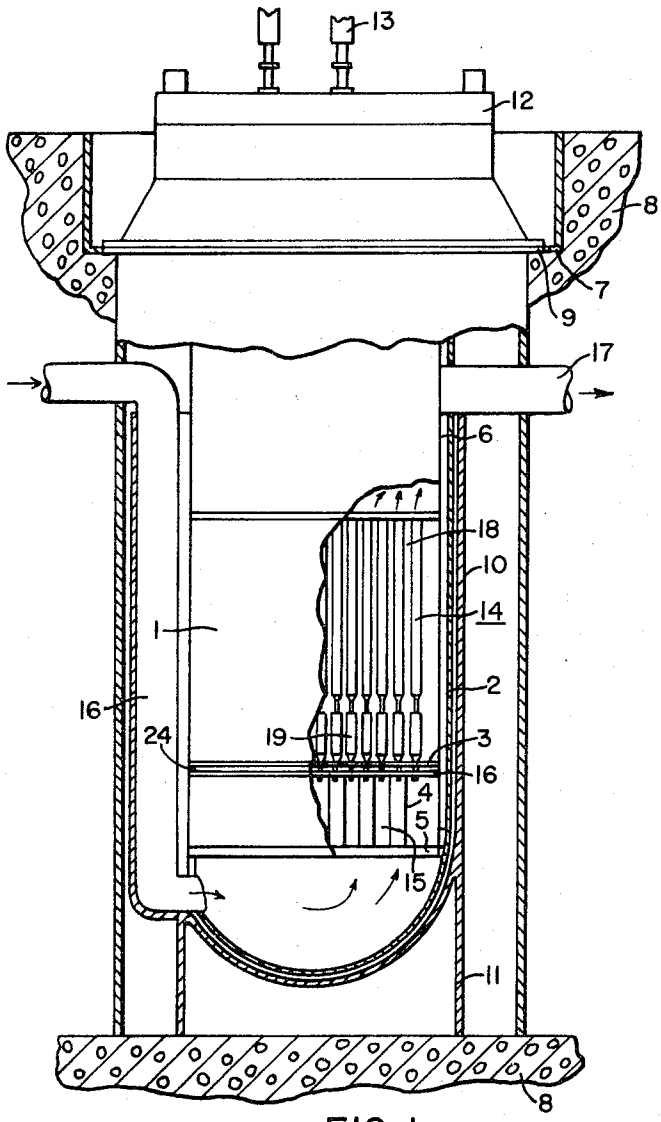


FIG. 1

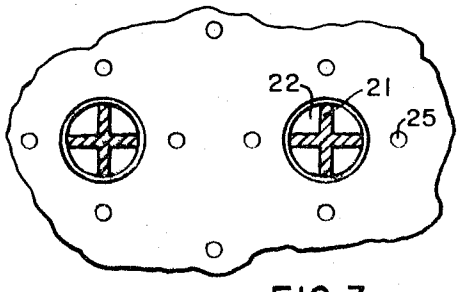


FIG. 3

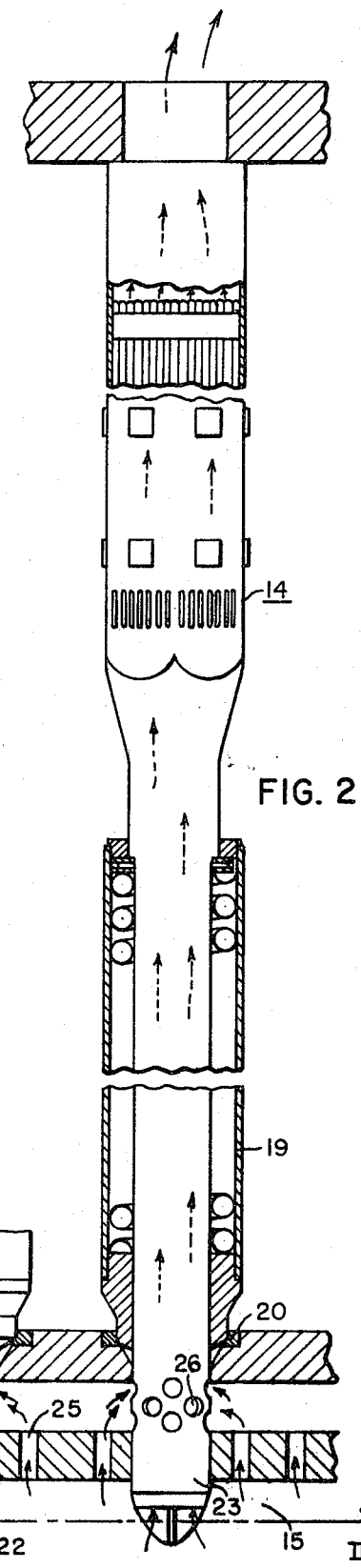


FIG. 2