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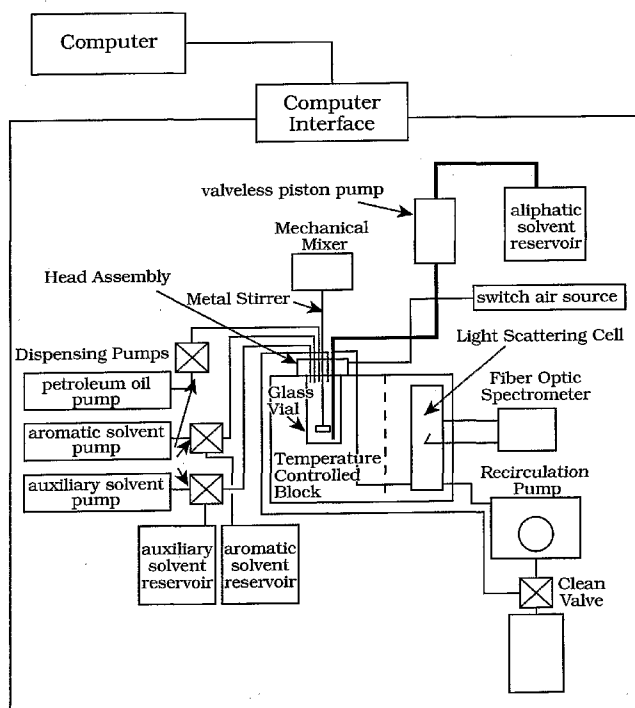
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[Continued on next page]

(54) Title: COMPUTER-CONTROLLED AUTOMATED TITRATION APPARATUS FOR OPTICALLY DETERMINING INCOMPATIBILITY OF PETROLEUM OILS

Schematics diagram of the
Optical Transmission Automated
Titration (OTAT) apparatus.



(57) Abstract: An automatic titration apparatus for optically determining incompatibility of petroleum oils. The apparatus includes reservoirs for oil and solvent, a sealed temperature-controlled mixing vessel, including a liquid mixer, pumps and transfer lines for dispensing oil and solvent from said reservoirs to said mixing vessel wherein oil and solvent are mixed to form a mixture, an aggregate detector, transfer lines for transferring said mixture to the aggregate detector, and a computer programmed to operate and monitor all elements of said apparatus.



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