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(57) Abstract :  
ABSTRACT OF THE INVENTION PORTABLE SENSOR FOR DETECTION OF FLUORIDE IN WATER The present disclosure relates to sensor for detection of fluorides. More particularly, the present disclosure relates to a simple, cost effective, portable, filter paper-based sensor for fluoride detection via ultra-violet irradiation. The sensor of the present disclosure comprises of a filter paper with adsorbed spots of acetonitrile dissolved curcumin and provides a quick and easy way of checking the fluoride levels in water resources.