

Document Title: Abstract

Title of Invention: Touch Detection Device Used In Water Handling Equipment,
And Faucet Apparatus Including The Same.

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Abstract

To provide a touch detection device capable of operation by a light touch, and of preventing false operations even when used in water handling equipment. The present invention is a touch detection device user in water
10 handling equipment, including: a sensing portion (2a) for sensing contact by a target object; a vibration excitation element (4) attached to this sensing portion (2a), a drive circuit (18) for exciting vibration in the sensing portion (2a), and a contact determining circuit (16a) for determining whether a target object is
15 contacting a sensing portion (2a) based on vibration of the sensing portion after stopping the application of an AC voltage to the vibration excitation element (4) by this drive circuit (18).

Fig. 2