

Title (en)

NON-CONTACT TONOMETER HAVING NON-LINEAR PRESSURE INCREASE

Title (de)

BERÜHRUNGSLOSES TONOMETER MIT NICHTLINEARER DRUCKZUNAHME

Title (fr)

TONOMETRE SANS CONTACT A AUGMENTATION DE PRESSION NON LINEAIRE

Publication

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Application

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- US 9914734 W 19990629
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Abstract (en)

[origin: WO0002481A1] A non-contact tonometer (10) having a fluid pulse generating system (12) for causing corneal applanation is improved by changing the pressure versus time characteristics of the fluid pulse from a linearly increasing relationship of the prior art to a non-linearly increasing relationship which reduces the impulse energy delivered to the eye during testing for purposes of patient comfort. In a preferred embodiment, an automatically driven piston (16) for producing an air pulse is provided with a linearly increasing current source (30) for driving the piston mechanism, whereby the pressure of the air pulse increases as a squared function of time to reduce impulse energy delivered to the eye.

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