

## MOTORIZED INSTRUMENT FOR DACRYOCYSTORHINOSTOMY AND CATARACT EXTRACTION BY SUCTION

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THE present instrument has been devised with the purpose of furnishing a motorized instrument of small size and cost which can be used both for dacryocystorhinostomy operations and cataract extraction by suction.\*

considered the maximum required for the extraction of any type of cataract. The amount of vacuum can be regulated by a single valve control (f) located under the registering gauge. The rubber tubing (g) connects with the valve con-

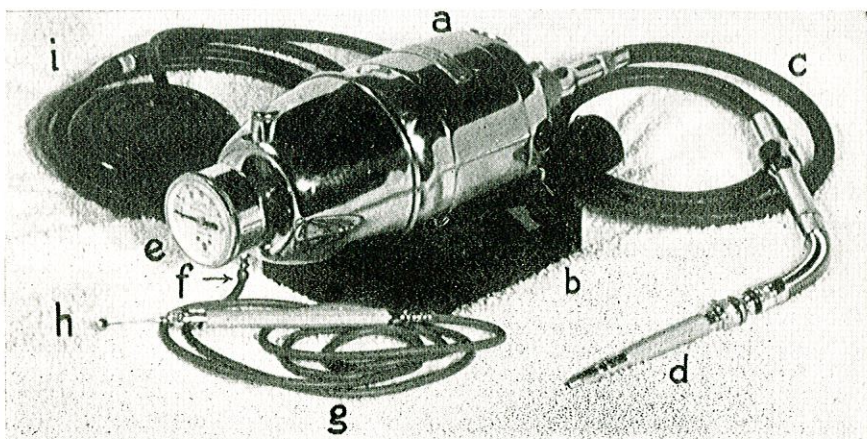


FIGURE 1.

The instrument consists of a motor (a) 1/10 H.P., AC-DC current, 110 volts and 60 cycles. An end of the motor connects a flexible shaft (c) with a dental handpiece (d), where the burrs to be used in dacryocystorhinostomy operations are attached. At the opposite end of the motor is placed the suction mechanism. A gauge (e), marked in centimeters from 1 to 65, registers the amount of vacuum delivered by the instrument, 65 centimeters having been

control and any type of suction cup or erisophake (h) may be attached to the other end of the rubber tubing. The motor, chromium-plated finish, is fastened to a plastic base (b) where an electric plug connects with the electric outlet through a foot-control switch. The motor is kept in a leather carrying case which permits the dual operation of the instrument without removing it from the case. The flexible shaft for dacryocystorhinostomy can be detached from the motor when the instrument is to be used for suction only.

Another advantage of this double-purpose instrument is that the vacuum can be used to keep the operating field free from obstructing hemorrhages dur-

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ing a dacryocystorhinostomy operation.

An instrument to serve the double purpose of suction for cataract extraction and dacryocystorhinostomy was first designed by Dr. Castañeda from Spain.\* I believe this new instrument has been made more economical without

losing efficiency and has been simplified still further than the one made in Spain.

The unit is compact, measuring 3.5 by 9.75 inches; the carrying case is 6.25 by 5.5 by 9 inches; the weight of the instrument including the flexible shaft and dental handle is 8 pounds; the weight of the carrying case, 2.5 pounds.

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\* Personal communication.