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### INNOVATED MICRO-SURGICAL SUCTION AND IRRAGTIONS NEURO –SURGICAL DISSECTING FORCEPS WITH “BIPOLAR CAPABILITIES”

**Objective:** The operating surgeons usually using the dissection forceps while the assistants continuously keeping the surgical field relatively clean by irrigation and suction through suction tube and another one for irrigation which might lead to “crowded” or busy traffic operative field by many instruments under magnification .

**Methods:** Our innovated forceps use the two limbs of the forceps for two separate functions, one for irrigation, while the other limb for suction by using a tube inside each of both, This tube end separately in the back of that forceps, however from the two limbs & tubes one of them is attached to the disposable polyethylene channel tube to the finely granulated power suction apparatus. While the other tube at the back end of that forceps is attached to the line of infusion control irrigation which could be control the speed of the flow of saline irrigation out to the field of surgery. So, we could control the power of both functions accurate and separately.

**Result:** We have already made the pro-type of that forceps which have been used for experimental surgery in animal & also, recently have been used in one of our patient, for that particular case a video-clip was inserted.

**Conclusions:** So, the use of the single instrument “The Forceps” for dissection, irrigation and suction actually facilitate micro- surgical operation

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especially tumor capsule dissection and excision instead of three instrument working simultaneously in a limited field of the microscope.

Future researches about that forceps: The running research is to develop a co-agulation capability with the above mentioned functions.

**Key words:** Innovated Suction, irrigation & dissecting micro-neurosurgical forceps with separate double control for both functions separately.

