



1. A system for ablation of uterine fibroid(s), said system comprising:

an ultrasound scanner configured to perform a volume scan of a uterus of a patient;

a display coupled with the ultrasound scanner, configured for displaying image and alphanumeric characters;

a device comprising a sheath and an electrode, the sheath covering the electrode, the electrode being configured for ablating the uterine fibroid, wherein the sheath is provided at an end of the device, the end being in a

direction of insertion of the device into the uterine cavity;

a controllable energy source coupled with the electrode and configured to supply energy to the electrode; one or more processors operatively coupled with a memory, said memory storing instructions executable by the one or more processors to:

receive ultrasound image data from the ultrasound scanner;

process the ultrasound image data to generate a three-dimensional representation of the uterus of the patient;

determine location and size of one or more fibroids in the uterus;

determine one or more navigation parameters for the electrode, from the display;

determine ablation parameters required by the electrode to ablate the fibroid,

wherein the device is operatively coupled to the one or more processors, said one or more processors configured to guide the electrode to a required point in the fibroid based on the determined one or more navigation parameters on the display, and https://patentsgazette.uspto.gov/week32/OG/html/1525-1/US12053235-20240806.html

wherein, on receipt of a signal, the controllable energy source supplies power to the electrode to enable ablation of the fibroid, wherein the processing of the ultrasound image data occurs on a planning workstation, and wherein the planning workstation is configured to, based on the processed ultrasound image data, compute the one or more navigation parameters selected from a group comprising the length of insertion of the sheath in order that the sheath is positioned close to the fibroid, orientation of the device required such that the sheath is positioned with respect to a required point in the fibroid, the length of the electrode required to be pushed from the sheath to reach the required point in the fibroid, and a combination thereof.