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(54) **FLUID JET DEVICE, DRIVE DEVICE OF FLUID JET DEVICE, SURGICAL INSTRUMENT, AND METHOD OF DRIVING FLUID JET DEVICE**

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CPC **A61B 17/3203** (2013.01); **A61B 17/32037** (2013.01); **Y10T 137/85986** (2015.04)

(58) **Field of Classification Search**
CPC A61B 17/3203; A61B 17/32037; Y10T 137/85986
See application file for complete search history.

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(57) **ABSTRACT**

A fluid jet device including a fluid chamber with variable capacity and a capacity varying section adapted to vary the capacity of the fluid chamber in response to supply of a drive signal. A drive waveform section making the capacity varying section operate so as to compress the capacity of the fluid chamber and a restoring drive waveform section making the capacity varying section operate to restore the capacity of the fluid chamber before compressing the capacity in a signal waveform. The drive signal supply section controls supply content of the drive signal to provide a restoring period adapted to restore a steady state of the fluid flowing toward an inside of the fluid chamber in a period from when the compressing drive waveform section in the drive signal is supplied to when a subsequent compressing drive waveform section is supplied.

13 Claims, 11 Drawing Sheets

