

**Robotic device for a minimally invasive medical
intervention on soft tissues**

Abstract

5 The present invention relates to a robotic device (10)
for performing a medical intervention on a patient (30)
using a medical instrument (13), comprising: - a robot
arm (11) having several degrees of freedom and having
10 an end suitable for receiving the medical instrument, -
an image capture system (14) suitable for capturing
position information concerning the anatomy of the
patient, - a storage medium (15) including a
biomechanical model of the human body, - a processing
15 circuit (17) configured to determine a position
setpoint and an orientation setpoint for said medical
instrument on the basis of the biomechanical model, on
the basis of the position information and on the basis
of a trajectory to be followed by the medical
20 instrument (13) in order to perform the medical
intervention, - a control circuit (16) configured to
control the robot arm (11) in order to place the
medical instrument (13) in the position setpoint and
the orientation setpoint.

25 Fig. 1