

17. The system as claimed in claim **14**, further comprising: second connecting elements of the part of the elbow rotation module near the wrist;

a wrist cuff; and

a wrist rotation module having an inner part connected to the wrist cuff and an outer part,

wherein the second connecting elements secure the elbow rotation module on the outer part of the wrist rotation module, and

wherein the outer part and the inner part of the wrist rotation module being connected so as to be pivotable relative to one another.

18. The system as claimed in claim **17**, wherein an additional rotation drive is provided on the wrist rotation module itself such that the wrist cuff turns about its main axis relative to the outer part of the wrist rotation module, the wrist cuff being arranged on the inside and having a substantially hollow-cylindrical shape when closed.

19. The system as claimed in claim **18**, further comprising control electronics connected with the first drive, the second drive, the rotation drive, the further rotation drive and the additional rotation drive, the control electronics being adapted to generate control signals for the first and second drives to place the upper arm rotation module in a spatially defined position, to generate additional control signals for the rotation drive to turn the upper arm cuff about its main axis relative to the outer part of the upper arm rotation module, to generate further additional control signals for the further rotation drive on the elbow rotation module to turn the elbow cuff transverse to its main axis relative to the axis of the upper arm rotation module, and to generate further additional control signals for the additional rotation drive to turn the wrist cuff about its main axis relative to the outer part of the wrist rotation module.

20. The system as claimed in claim **12**, wherein the rotation module has a lateral opening of a size such that the associated arm part of a user can be introduced from the side into the corresponding cuff.

21. The system as claimed in claim **17**, wherein all rotation modules have a lateral opening of a size such that the associated arm part of a user can be introduced from the side into the corresponding cuff.

22. The system as claimed in claim **12**, wherein one or more of the drives each has a signal transmitter for determining the axis position of the drives.

23. The system as claimed in claim **22**, wherein the signal transmitters are adapted to transmit position signals, angle

signals, force signals and torque signals to control electronics in order to define repetitive movements, to record the repetitive movements, or to generate corresponding control signals for the drives.

24. A rotation module for a system for arm therapy of a user, comprising:

a cuff having a substantially hollow-cylindrical shape when closed;

an inner hollow-cylinder element part connected to a correspondingly associated cuff;

an outer hollow-cylinder element part;

a drive train or a toothed wheel; and

at least one drive means from the group of a cable, a V-belt or a gear rim, said at least one drive means being fixed on one of the two hollow-cylinder element parts at an angular distance from one another and guided between the inner surface of the outer hollow-cylinder element part and the outer surface of the inner hollow-cylinder element part about the drive train or engaging with the toothed wheel, such that the cuff turns about its main axis relative to the outer part of the rotation module.

25. A rotation module for a system for arm therapy of a user, comprising:

a cuff having a substantially hollow-cylindrical shape when closed;

an inner hollow-cylinder element part connected to a corresponding cuff;

an outer hollow-cylinder element part having end-pieces; and

two lateral guides provided in the end-pieces and having corresponding radial ball bearings,

wherein the inner hollow-cylinder element part is guided in the two lateral guides.

26. The rotation module according to claim **25**, further comprising additional radial ball bearings capable of supporting the inner hollow-cylinder element part against the end-pieces.

27. The rotation module as claimed in claim **24**, further comprising a lateral opening of a size such that the associated arm part of a user can be introduced from the side into the corresponding cuff.

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