CLAIMS

1. A back-support assembly for a chair comprising:

a back-support mounting frame for a backrest of the chair;

a displaceable member that is displaceable relative to the back-support mounting frame along a primary movement axis;

a motion converter that operatively couples the displaceable member to the back-support mounting frame;

wherein the motion converter is configured to convert an input motion applied to the motion converter relative to the back-support mounting frame into an output motion that displaces the displaceable member relative to the back-support mounting frame and along the primary movement axis;

wherein the primary movement axis extends across the back-support mounting frame along a thickness direction of the back-support mounting frame; and

a link arrangement for coupling one or more back-support members to the displaceable member, the link arrangement being operatively engaged with the displaceable member so as to be movable relative to the displaceable member along a secondary movement axis that is non-parallel to the primary movement axis.

2. The back-support assembly of claim 1,

wherein the motion converter comprises:

an input-receiving member, that is movable relative to the back-support mounting frame, for receiving the input motion, and

an output member in engagement with the input-receiving member, wherein the output member is further coupled to the displaceable member in a manner so as to impart the output motion to the displaceable member for displacing the displaceable member relative to the back-support mounting frame and along the primary movement axis.

3. The back-support assembly of claim 2,

wherein the input-receiving member comprises a rotatable member that is rotatable to input a rotational input motion into the motion converter that is converted by the motion converter into a linear output motion for displacing the displaceable

member relative to the back-support mounting frame and along the primary movement axis.

4. The back-support assembly of claim 3,

wherein the input-receiving member of the motion converter comprises a threaded shaft that is rotatable about a rotational axis extending across the threaded shaft;

wherein the rotational axis is parallel with the primary movement axis; and

wherein the output member comprises an internally threaded cylindrical body in operative threaded engagement with the threaded shaft such that a rotational input motion of the threaded shaft about the rotational axis results in a threaded displacement of the internally threaded cylindrical body relative to the threaded shaft along the primary movement axis;

wherein, preferably, the threaded shaft comprises a plurality of outer screw threads; and

wherein, preferably, the plurality of outer screw threads comprises a multi-start thread.

5. The back-support assembly of any one of claims 1 to 4,

wherein the link arrangement comprises a bar member operatively engaged with the displaceable member so that the bar member is movable relative to the displaceable member along the secondary movement axis.

6. The back-support assembly of any one of claims 1 to 5,

wherein the displaceable member comprises a guide;

wherein the guide defines a linear pathway on the displaceable member for moving the link arrangement along the linear pathway; and

wherein the linear pathway is parallel with the secondary movement axis.

7. The back-support assembly of claim 6,

wherein the link arrangement comprises a movable tab;

wherein the displaceable member comprises a tab-guide; and

wherein the tab-guide comprises a pair of opposing longitudinal inner surfaces of the displaceable member which define the linear pathway for the movable tab to be movable therealong.

8. The back-support assembly of claim 7,

wherein the tab-guide comprises a first engagement arrangement;

wherein the movable tab comprises a second engagement arrangement; and

wherein the first engagement arrangement and the second engagement arrangement are configured to inter-engage with each other for releasably holding the movable tab in place relative to the tab-guide.

9. The back-support assembly of claim of claim 7 or claim 8,

wherein the tab-guide comprises an alignment rod that is parallel with the linear pathway;

wherein the movable tab defines a bore; and

wherein the alignment rod is extending through the bore of the movable tab.

10. The back-support assembly of any one of claims 1 to 9, further comprising:

a handle arrangement coupled to the link arrangement for moving the link arrangement along the secondary movement axis.

11. The back-support assembly of claim 10,

wherein the handle arrangement comprises:

a cantilever handle member secured, at a first end portion thereof, to the link arrangement;

wherein an opposite second free end portion of the cantilever handle member serves as a handle portion for moving the link arrangement.

12. The back-support assembly of claim 11,

wherein the link arrangement and the first end portion of the cantilever handle member are at a first side of the back-support mounting frame;

wherein an intermediate portion of the cantilever handle member extends from the first end portion of the cantilever handle member, across a side of the back-

support mounting frame in the thickness direction of the back-support mounting frame, to a second side of the back-support mounting frame opposite the first side of the back-support mounting frame; and

wherein the second free end portion of the cantilever handle member extends, from the intermediate portion of the cantilever handle member, in a direction away from the second side of the back-support mounting frame.

13. The back-support assembly of any one of claims 1 to 12, further comprising:

a pair of back-support members coupled to the displaceable member via the link arrangement;

wherein, preferably, the pair of back-support members are arranged adjacent to each other along a sideway direction that is non-parallel to both the primary movement axis and the secondary movement axis.

14. A chair comprising:

a backrest; and

the back-support assembly of any one of claims 1 to 13 mounted to the backrest.

15. The chair of claim 14, further comprising:

a head-support assembly comprising:

a head-support mount releasably mounted to the backrest,

a head-support link member pivotably coupled, at a first end portion of the head-support link member, to the head-support mount so as to be pivotable relative to the head-support mount about a primary pivot axis, and

a connector pivotably coupled, at a first portion of the connector, to a second end portion of the head-support link member so as to be pivotable relative to the head-support link member about a secondary pivot axis that is parallel with the primary pivot axis;

wherein the primary pivot axis is orthogonal to the primary movement axis;

wherein, preferably, the chair further comprises a head-support member operatively coupled to a second portion of the connector such that the head-support

member is movable along a displacement axis that is orthogonal to the secondary pivot axis;

wherein, preferably, the second portion of the connector may comprise a guide element which defines a guide path that is extending parallel with the displacement axis for guiding movement of the head-support member;

wherein, preferably, the guide element comprises a tubular member with an inner guide-channel extending parallel with the displacement axis; and

wherein, preferably, the head-support member comprises a shaft that is slidably inserted into the guide-channel.