CLAIMS

1. An input device comprising:

a handle configured to receive a force exerted by a user;

a shaft coupled to the handle such that the force exerted on the handle is at least partially received on the shaft;

wherein the handle is displaceable along a height of the shaft;

wherein the handle comprises a fastening member releasably biased to exert a force on an upper portion of the shaft in a direction at least substantially perpendicular to the height of the shaft, wherein the handle comprises a lever, the lever having a first arm arranged at least substantially perpendicular to a second arm, wherein the second arm comprises the fastening member.

2. The input device of claim 1, wherein the upper portion of the shaft has a plurality of coupling structures arranged along a height of the upper portion of the shaft, each coupling structure of the plurality of coupling structures shaped to at least substantially engage with the fastening member.

3. The input device of claim 2, wherein each coupling structure of the plurality of structures is a recessed area.

4. The input device of claim 3, wherein the fastening member comprises a protrusion shaped to fit the recessed area.

5. The input device of claim 2, wherein each coupling structure of the plurality of structures is a protrusion.

6. The input device of claim 5, wherein the fastening member comprises a recessed area shaped to fit over the protrusion.

7. The input device of any one of claims 1 to 6, wherein the fastening member comprises a non-slip surface for gripping the upper portion of the shaft.

8. The input device of any one of claims 1 to 7, wherein the handle comprises a resilient material arranged adjacent to the lever, wherein the resilient material is deformed when the first arm is pulled in a direction at least substantially parallel to the height of the shaft.

9. The input device of any one of claims 1 to 8, further comprising:

a further lever, wherein the lever and the further lever are arranged symmetrically about the upper portion of the shaft.

10. The input device of claim 9, further comprising:

a tension spring between the lever and the further lever, the tension spring configured to bias the fastening member to exert the force on the upper portion of the shaft in the direction at least substantially perpendicular to the height of the shaft.

11. The input device of any one of claims 1 to 10, wherein the fastening member is released from the upper portion of the shaft when the first arm is pulled in a direction at least substantially parallel to the height of the shaft.

12. The input device of any one of claims 1 to 11, wherein the first arm is biased towards being at least substantially conformal with the handle.

13. The input device of any one of claims 1 to 12, further comprising:

a sensor configured to provide a sensing output based on the force received on the shaft.

14. The input device of claim 13, wherein the sensing output is indicative of at least one of a magnitude or a direction of the force received on the shaft.

15. The input device of any one of claims 1 to 14, wherein the handle comprises a cap and a lever, the cap defining a plane at least substantially perpendicular to the height of the shaft.

16. The input device of claim 15, wherein the cap comprises an indentation, wherein the lever fits at least substantially into the indentation.

17. The input device of any one of claims 1 to 16, further comprising:

an extender coupled to the handle, the extender configured to at least partially enclose the upper portion of the shaft.

18. The input device of claim 17, further comprising:

an enclosure comprising an outer wall and an inner wall,

wherein the inner wall at least partially surrounds the shaft, and wherein the extender is arranged between the outer wall and the inner wall.

19. The input device of claim 18, wherein the extender is displaceable relative to the enclosure in a direction at least substantially parallel to the height of the shaft.

20. The input device of any one of claims 18 to 19, further comprising:

a spring configured to bias the extender away from a floor of the enclosure, wherein the floor connects the outer wall to the inner wall.