CLAIMS

1. Injection device for injecting liquid medicine to a patient, comprising a medicine container an end of which is connectable to a needle, and further comprising magnetic sensor means for sensing connection of the needle to the medicine container.

~~2. Injection device according to claim 1,~~ wherein the magnetic sensor means comprise:

- a movable member actuable by connecting the needle to the medicine container and comprising a magnetic element; and
- a sensor element sensitive to a magnetic field generated by the magnetic element.

~~3.~~2. Injection device according to claim 1~~2~~, wherein the movable member is a lever comprising first and second ends, said lever being actuable at said first end by a needle support upon connection of the needle to the medicine container, said second end comprising the magnetic element.

~~4.~~3. Injection device according to claim 2~~3~~, wherein said second end is farther from said end of the medicine container than is said first end.

~~5.~~4. Injection device according to claim 3~~4~~, wherein a distance between a hinge point of the lever and the second end is larger than a distance between said hinge point and the first end.

~~6.~~5. Injection device according to any one of claims 2~~3~~ to 4~~5~~, further comprising a spring acting on the lever for maintaining the lever in a rest position when the needle is not connected to the medicine container.

~~7.~~6. Injection device according to any one of claims 1~~2~~ to 5~~6~~, further comprising a wall between the magnetic element and the sensor element to protect the sensor element from contamination by the medicine.

~~8.~~7. Injection device according to claim 6~~7~~, wherein said wall is made of a non-magnetic material.

~~9.~~8. Injection device according to any one of claims 1~~2~~ to 7~~8~~, wherein the magnetic element is a permanent magnet.

~~10.~~9. Injection device according to any one of claims 1~~2~~ to 8~~9~~, wherein the sensor element is a Hall effect sensor.