WHAT IS CLAIMED IS:

1. A cover unit (101), comprising:

a base (102), comprising:

a first adhesive layer (107) on a bottom side of the base;

an ultrasonically transparent flexible sheet (106) extending to a distal end of the cover unit; and

a frame (105), which, together with the ultrasonically transparent flexible sheet, defines an ultrasonically transparent window (130), the ultrasonically transparent window extending to the distal end of the cover unit, the frame being open-ended at the distal end of the cover unit; and

a wall (103) being connected to the base via a bending region (104) located at a proximal end of the base.

2. The cover unit of claim 1, further comprising an ultrasonically transparent gel-removal strip covering the ultrasonically transparent flexible sheet on the top side of the base.

3. The cover unit according to claim 1 or 2, further comprising a stabilizer located at or near the bending region, the stabilizer being capable of maintaining the angled orientation between the wall and the base.

4. The cover unit of claim 3, wherein the stabilizer is a bendable sheet comprising a first stabilizer part being fixed to the wall and a second stabilizer part being fixed to the base.

5. The cover unit of claim 3, wherein the cover unit comprises two stabilizers, each stabilizer located at or near each lateral end of the bendable region.

6. The cover unit of claim 3, further comprising an ultrasonically transparent gel-removal strip covering the ultrasonically transparent flexible sheet on the top side of the base, wherein the ultrasonically transparent gel-removal strip extends under at least part of the stabilizer.

7. The cover unit according to any one of claims 1-6, wherein the wall comprises a slot extending from a proximal end of the wall towards the base, wherein the slot is capable to position the puncture device after the inserting of the anatomical structure.

8. The cover unit of claim 7, wherein the wall further comprises a second adhesive layer on a bottom side of the wall.

9. The cover unit of claim 8, wherein the wall further comprises a wall cover sheet on a bottom side of the second adhesive layer.

10. A system comprising the cover unit of any one of the preceding claims and an ultrasonic probe (119), wherein the ultrasonic probe is adapted to image through the ultrasonic window.

11. The cover unit of any one of claims 1 to 9, wherein the cover unit is for inserting a puncture device through skin of a subject, is for application onto skin of the subject at a puncture site, and/or is for imaging of an anatomical structure and/or a puncture device under skin of the subject at a puncture site or near the puncture site in a distal direction using an ultrasonic probe on a top side of the base.