CLAIMS

1. A closure system consisting of a lid or cap or ring and a container inter-engageable with one another to provide closure of the container, wherein the lid or cap or ring has a skirt and the container has an upstanding rim, each of which is generally polygonal shape, with three to six sides, the skirt and the rim having walls mutually facing each other in the closed position, and wherein located on each of the facing walls on each side of the polygonal shape are inter-engageable projections, where the inter-engaging surfaces of the projections run substantially in a plane perpendicular to the axis of the polygonal shape and are of relatively small angular extent about that axis, and wherein the material of one or both of the skirt and container is resiliently elastic.

2. A closure system according to Claim 1 wherein the general shape of the lid or cap or ring and of the corresponding part of the container is square.

3. A closure system according to any one of Claims 1 to 2 wherein, in addition to the inter-engaging formations, the skirt and container exterior have camming surfaces which can engage with one another when the lid or cap or ring is placed on the container and which tend, as the inter-engageable projections are brought into engagement, to urge the lid or cap or ring to rotate relatively to the container to achieve a maximum area of inter-engagement between those projections.

4. A closure system according to Claim 3 wherein the camming surfaces take the form of a bead on the exterior of the container and a recess with a sloping side on the interior wall of the skirt of a lid or cap or ring, both offset from the centre of each side of the polygonal shape.

5. A closure system according to any one of Claims 1 to 4 wherein the peripheral extend of the inter-engaging portions of the inter-engaging projections is less than 8°, most preferably 5°.

6. A closure system according to any one of Claims 1 to 5 wherein the two inter-engaging members on each of the sides may have angled or chamfered sections to assist quick application of the lid or cap or ring when pushing in an axial direction.

7. A closure system according to any one of Claims 1 to 6 wherein the interior of the cap or lid or ring includes a seal member adapted, when the cap or lid or ring is applied, to seal the container opening.

8. A closure system according to any one of Claims 1 to 7 wherein the exterior of the skirt has a pair of relief textued areas, at or near two opposed corners of the polygonal shape.