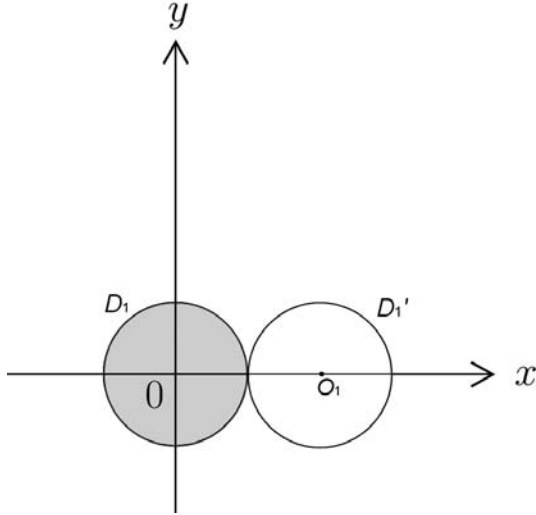
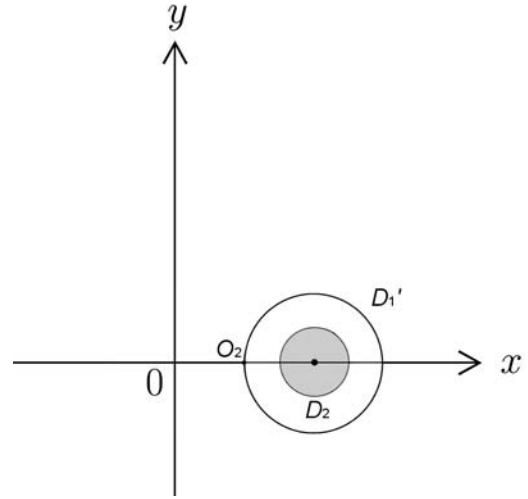
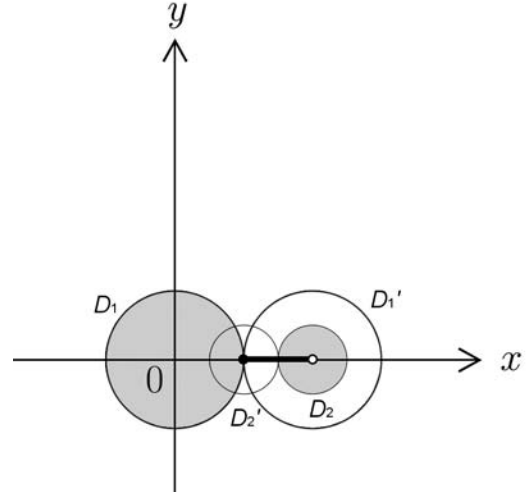
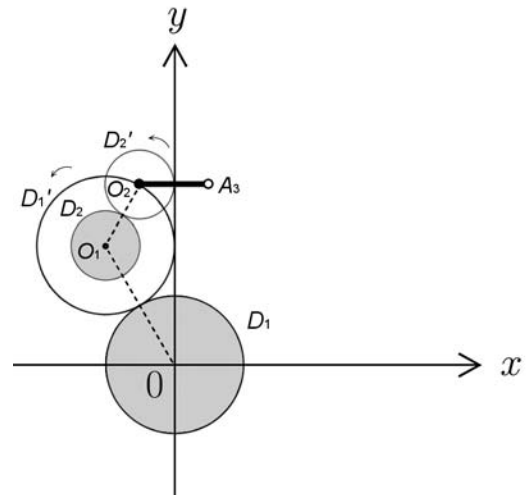


Fig. 11. The orbit of the edge of 11-th frame.

Fig. 12. The fixed disc D_1 and the rolling disc D_1' .

$\angle O_{n-2}O_{n-1}A_n$.

In order to obtain the relation between α_k and the fold angle β of the card, it suffices to observe the basic unit with the fold angle β (Fig. 9). In Fig. 9, C denotes the midpoint between B and B' , and C' denotes the orthogonal projection of C to the x -axis. Then, we have three right triangles: $\triangle OCC'$ with $\angle OC'C = \frac{\pi}{2}$ and $\angle COC' =$

Fig. 13. The attached disc D_2 .Fig. 14. A nested epitrochoid mechanism ($n = 3$).Fig. 15. A nested epitrochoid mechanism ($n = 3$).