The puzzle comes in a plastic box as shown below; the *Yoki patent* also describes the *Ten Billion Barrel* puzzle. Seventeen pieces (one white and four each of orange, green, blue, and yellow) are arranged in a cross (a center piece and four pieces on each arm). A center disc can rotate the center five pieces (i.e., the center piece and the first piece on each arm), a middle ring can rotate the next two pieces of each arm, and an outer ring can rotate the outside pieces of each arm. In addition, a plunger can be temporarily pushed in to offset all of the pieces of a row by one unit (and while it is in, the outer ring cannot rotate). The goal is to mix up the puzzle and then solve it so that each concentric circle has the same color (with white in the center). The booklet that was sold with the puzzle, folds out into a strip with 7 panels on each side, as shown on the following page. *Jaap's Page* credits the puzzle invention to work at Nintendo and presents a solution.

**Further Reading**

*Yokoi Patent*, from: www.uspto.gov - patent no. 4,376,537

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The Booklet That Was Sold With Trillion

Stop! Read the entire instruction sheet before you make a move.

Enjoy a unique puzzle challenge—to master the arrangement of colored chips in circles and crosses inside the Trillion puzzle—more than one billion possible patterns, and just two solutions!

Change the patterns by rotating any of the 3 transparent rings either clockwise or counterclockwise and by pushing in the slide lever with your thumb to shift the chips as you rotate the inner and middle rings. The outer ring cannot be rotated while the slide lever is depressed.

Object: To change the arrangement of the chips from the original “CROSS” pattern to the “CIRCLE” pattern that corresponds to the colored circles printed on the puzzle base. . . and then to get it back to the “CROSS”!

Note: The single white chip belongs at the center of both patterns.

The slide lever cannot be pushed in unless the chips are aligned straight. Do not force the slide lever; gently shake the puzzle to align the chips.

How To Change Chips From Circle Arrangement To Circle Arrangement

1. Push lever
2. Turn middle left 1 x
3. Release lever
4. Turn outer left 2 x
5. Turn middle left 1 x
6. Push lever
7. Turn middle right 1 x
8. Release lever
9. Turn outer left 1 x
10. Turn central right 1 x
11. Push lever
12. Turn middle left 2 x
13. Release lever
14. Turn middle left 1 x
15. Push lever
16. Turn middle right 1 x
17. Turn central left 1 x
18. Release lever
19. Turn central left 1 x
20. Push lever
21. Turn central left 1 x
22. Release lever
23. Turn middle left 1 x
24. Push lever
25. Turn middle left 1 x
26. Release lever
27. Turn middle left 1 x
28. Push lever
29. Turn middle left 1 x
30. Release lever
31. Turn middle left 1 x
32. Push lever
33. Push lever
34. Turn central left 1 x
35. Release lever
36. Turn central left 1 x
37. Turn central right 1 x
38. Release lever

1 x = (One Turn = 90 Degrees)

How To Change Chips From Circle Arrangement To Cross Arrangement

1. Push lever
2. Turn middle left 1 x
3. Release lever
4. Turn outer left 1 x
5. Push lever
6. Turn middle left 1 x
7. Release lever
8. Turn outer left 1 x
9. Turn middle left 1 x
10. Push lever
11. Turn middle left 1 x
12. Release lever
13. Turn central left 1 x
14. Push lever
15. Turn middle left 2 x
16. Turn central right 1 x
17. Release lever
18. Turn middle left 1 x
19. Turn central right 1 x
20. Push lever

1 x = (One Turn = 90 Degrees)