Rubik's Dice

Matchbox 1990.
(plastic with internal parts and magnets, 2.7 inches)

Plates inside a hollow cube that have white and red dots on them can be manipulated by tilting the cube; the goal is to make only white dots shown in the holes that have the pattern of a standard die. The 1993 patent of J. Bognar and E. Rubik of a similar mechanism with plated with a single hole on each side into which a finger can be pushed. Jaap's Page describes the configuration of the plates and gives a solution. Here is the English portion of the directions from the back of the box:

Further Reading
McFarren's Page, from: http://www.geocities.com/abcmcfarren/math/r90/dicenot.htm
Koller's Page, from: http://www.mathematische-basteleien.de/dice.htm
Bognar-Rubik Patent, from: www.uspto.gov - patent no. 5,184,822