

Puzzle provided by Kordemsky: The Moscow Puzzles (Dover)
Wheels $A, B, C$, and $D$ are connected with belts as shown. If wheel $A$ starts to rotate clockwise as the arrow indicates, can all 4 wheels rotate? If so, which way does each wheel rotate?
Can all the wheels turn if all 4 belts are crossed? If 1 or 3 belts are crossed?



[^0]
[^0]:    Solution: Yes, $C$ and $D$ turn clockwise and $B$ turns counterclockwise. The wheels can also turn if all 4 belts are crossed, but not if $\mathbf{1}$ or $\mathbf{3}$ belts are.

