

## ABSTRACT

### METHOD FOR PRODUCING AROMATIC HYDROCARBON

[Task] To produce an aromatic hydrocarbon stably for a long time while maintaining a high aromatic hydrocarbon yield, when producing an aromatic hydrocarbon by a catalytic reaction of a lower hydrocarbon with a catalyst.

[Solving Means] An aromatic hydrocarbon is produced by providing a reaction step to obtain an aromatic hydrocarbon by conducting a catalytic reaction of a lower hydrocarbon with a catalyst and a regeneration step to regenerate the catalyst used in the reaction step, and by repeating the reaction step and the regeneration step. In the reaction step, carbon dioxide or carbon monoxide is added to the lower hydrocarbon, and the reaction temperature is made to be higher than 800°C.

Figure 2.