

## **ABSTRACT**

### **METHOD FOR PRODUCING $\alpha$ , $\beta$ -UNSATURATED CARBOXYLIC ACID**

A process for producing an  $\alpha$ ,  $\beta$ -unsaturated carboxylic acid which comprises oxidizing an olefin or  $\alpha$ ,  $\beta$ -unsaturated aldehyde in a liquid phase in the presence of a noble-metal catalyst. The process can ensure operational safety in stopping the reaction and prevent the noble-metal catalyst from deteriorating. The process, which is for producing an  $\alpha$ ,  $\beta$ -unsaturated carboxylic acid by oxidizing an olefin or  $\alpha$ ,  $\beta$ -unsaturated aldehyde in a liquid phase in the presence of a noble-metal catalyst in a reactor, includes a stoppage step in which an inert gas is supplied to the reactor to stop the oxidation reaction. Thus, an  $\alpha$ ,  $\beta$ -unsaturated carboxylic acid is produced.

**No Figure to accompany Abstract**