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(54) Title: COMPOUND STATIC MIXER REACTOR AND APPLICATIONS THEREOF

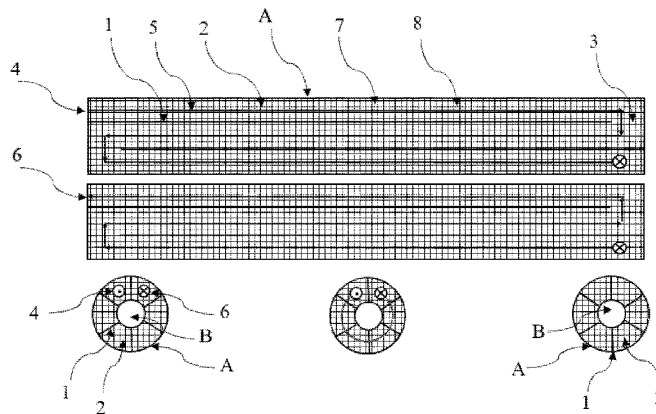


Figure 1a

(57) Abstract: A compound static mixer element, a compound catalytic static mixer element, and dehydrogenation and hydrogenation processes using a compound catalytic static mixer element, configured for use with continuous flow chemical reactors, for example tubular continuous flow chemical reactors for heterogeneous catalysis reactions.

[Continued on next page]

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