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(54) Title: DEVICE FOR HANDLING CATALYST AND OTHER MATERIAL IN A REACTOR VESSEL

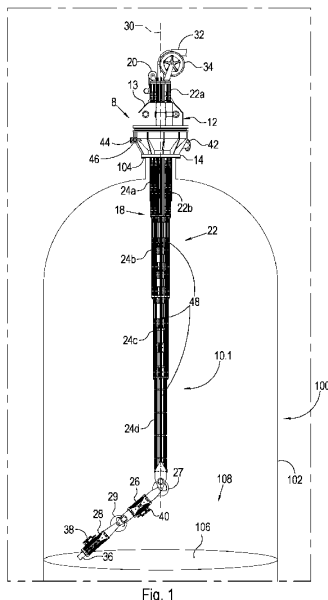


Fig. 1

(57) Abstract: This invention relates to a robotic device 10.1, 10.2 and method for handling catalyst material 106, 206 in a reactor 100 by removing spent catalyst from the reactor and/or loading the reactor with fresh catalyst without an operator having to enter an interior of the reactor which increases operator safety. The robotic device includes a body 12, which is configured to engage a flange 104 of the reactor, and a handling arm which is configured for use both as a cleaning arm 18 and a loading arm 218. The handling arm is connected to the body and is angularly and longitudinally displaceable relative to the body. The handling arm has a segment which is telescopically extendible/retractable relative to the body. When used as a cleaning arm, the arm receives a vacuum line for removing catalyst. When used as a loading arm, a telescopic loading sleeve is connected to the segment.

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