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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

[Continued on next page]

(54) Title: HYDROCONVERSION MULTI-METALLIC CATALYST AND METHOD FOR MAKING THEREOF

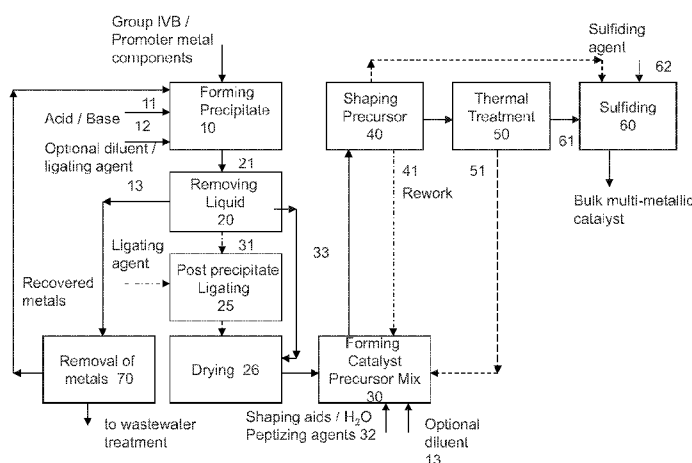


FIG. 1

(57) Abstract: In a process for forming a bulk hydroprocessing catalyst by sulfiding a catalyst precursor made in a co-precipitation reaction, up to 60% of the metal precursor feeds do not react to form catalyst precursor and end up in the supernatant. In the present disclosure, the metals can be recovered via any of chemical precipitation, ion exchange, electro-coagulation, adding a precipitant to generate additional catalyst precursor, and combinations thereof to generate an effluent stream containing less than 50 mole % of metal ions in at least one of the metal residuals, and for at least one of the metal residuals is recovered as a metal precursor feed, which can be recycled for use in the co-precipitation reaction. The process results in minimal metals in the waste water stream. In one embodiment, an effluent stream to waste treatment contains less than 50 ppm metal ions.

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