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(57) Abstract: A pre-separator feed well for use with hydrous slurry feed is provided in a hindered-bed separator that includes an elongate body defining an interior space with upper and lower portions. The feed well is elongate and includes a vertically adjustable conical plate adjacent the bottom thereof for control of downward flow of heavy material. The top of the feed well includes an overflow weir including an overflow ring having a plurality of vertical slots through which flows the lighter material onto an overflow weir adjacent an overflow launder and to an outlet pipe. Feed is introduced into the upper portion of the feed well in a tangential manner. A perforated barrier may be mounted below the feed well in some circumstances. Teeter flow is introduced in a lower portion of the feed well and flows upwardly.

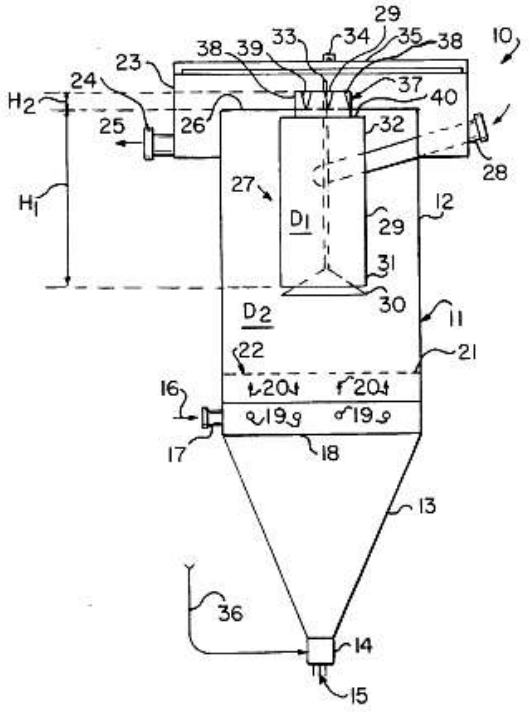

Fig. 1

Drawing 03 Sheets.
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