

## SAFETY NEEDLE DEVICES AND RELATED METHODS

### ABSTRACT

A needle safety device is disclosed in which a needle guard has several biasing arms that are biased by the needle shaft in a ready to use position. But in a protective position, at least one of the biasing arms is no longer biased by the needle shaft and moves to block a distal opening of the needle guard. The needle has a change in profile for engaging an opening on a proximal wall in a protective position. The needle guard may be formed from a stamped metal sheet having a plurality of cuts or clits. A catheter hub with a catheter tube can further be added for a safety catheter assembly.

FIG. 2