VII. Abstract

A hypodermic needle featuring a multi-beveled point geometry is disclosed. In one embodiment, the multi-beveled point features a primary bevel, a pair of tip bevels, and a pair of middle bevels each intermediate the primary bevel and a respective one of the tip bevels. The primary and middle bevels are provided at angles of inclination, measured between the central axis and a reference plane that are substantially identical. The tip bevels are formed at an angle of inclination respective to the central axis which is not equal to the angle of inclination at which the primary and middle bevels are formed. The resulting five-beveled point geometry contributes to a more continuous bevel face free of abrupt intercepts or transitions between the respective bevel faces, lessening the penetration force required to urge the needle point through skin, flesh, or other material.

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