

ABSTRACT

HOLLOW MICRONEEDLE

A hollow microneedle is provided, and relates to the technical field of medical instruments. The hollow microneedle includes a base and a needle head arranged at an upper part of the base. The needle head includes a liquid outlet bevel, a rear side surface and two side connecting structures. Each of both sides of the liquid outlet bevel is connected with the rear side surface through one side connecting structure. The liquid outlet bevel, the rear side surface and the ends, away from the base, of the two side connecting structures form a needle tip, or the rear side surface and the ends, away from the base, of the two side connecting structures form a needle tip. A liquid outlet is formed in the liquid outlet bevel. A liquid outlet channel is formed in the needle head, and a liquid inlet channel is formed in the base. Both ends of the liquid outlet channel are respectively connected with the liquid outlet and one end of the liquid inlet channel, and the other end of the liquid inlet channel passes through the bottom of the base. The hollow microneedle prevents skin fragments from blocking the liquid outlet in the process of penetrating the skin, so that the stability of the liquid outlet and the integral stability of the whole needle head are ensured, and the situation that the needle is broken or cannot penetrate the skin is avoided.

FIG. 1