

Sept. 1, 2023

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### Announcement of New Patent Acquisition

Nihon Chushashin Kogyo Co., Ltd., informs those concerned of the patent obtained for a puncture needle on Apr. 28, 2023 (JST).

We are confident that this patent acquisition will enhance the reliability of our expertise and products, giving us an additional competitive edge in the market. We will double down on our efforts to provide our customers with better products and services. The patent obtained this time is as follows:

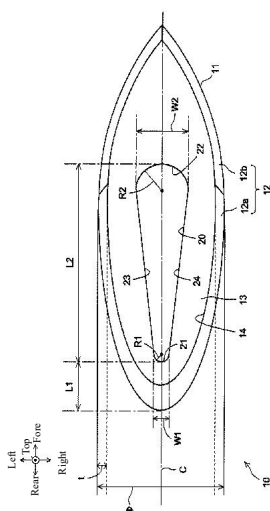
Name of the invention: Puncture needle  
Country of registration: Japan  
Patent number: No. 7270982  
Patent acquisition date: Apr. 28, 2023

A dialysis puncture needle has a very large outside diameter of 18G (1.2 mm) to 15G (1.8 mm). It is not hard to imagine how painful a puncture can be. **The patent obtained this time is for a technology for reducing puncture resistance (reducing pain) with a sufficient cross-sectional area secured for the flow path through the side hole.**

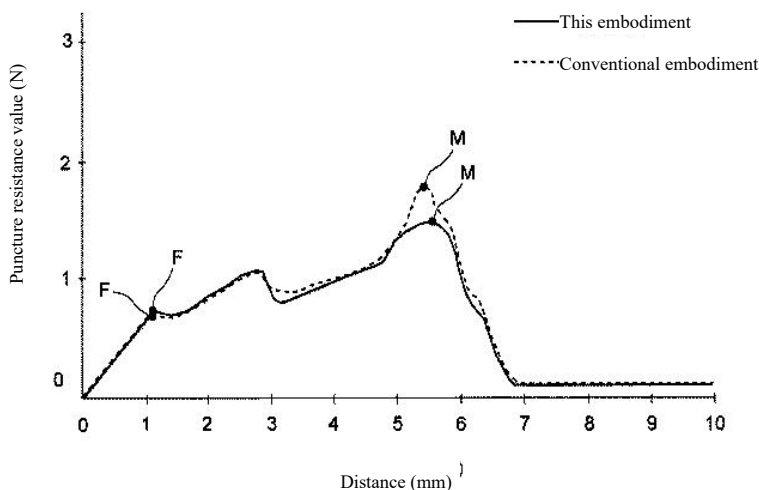
[Abstract of the disclosure]

This invention relates to a puncture needle comprising a needle body having a point with a blade face formed thereon and a side hole formed in a side wall portion of the other point opposite to the blade face with respect to a center axis of the needle body, wherein the side hole is formed as a slot axially extending from the proximal end toward the distal end of the needle body, and the proximal end width of the side hole being smaller than the distal end width thereof.

[Shape diagram of needle body slot]



[Puncture resistance value measurement]



We look forward to receiving continued support from our customers.