



US00D990677S

(12) **United States Design Patent**  
**Koarashi**

(10) **Patent No.:** **US D990,677 S**

(45) **Date of Patent:** **\*\* Jun. 27, 2023**

(54) **MEDICAL TUNNELING INSTRUMENT**

(56) **References Cited**

(71) Applicant: **HI-LEX CORPORATION**, Hyogo (JP)

U.S. PATENT DOCUMENTS

(72) Inventor: **Shinsaku Koarashi**, Hyogo (JP)

5,871,496 A \* 2/1999 Ginn et al. .... A61B 17/02  
606/190

(73) Assignee: **HI-LEX CORPORATION**, Hyogo (JP)

D709,194 S \* 7/2014 Miller et al. .... D24/146

(\*\*) Term: **15 Years**

8,979,744 B2\* 3/2015 Braga et al. .... A61M 25/0194  
600/184

(21) Appl. No.: **29/689,058**

9,381,030 B2\* 7/2016 Geroy ..... A61B 17/3200016

(22) Filed: **Apr. 26, 2019**

\* cited by examiner

(30) **Foreign Application Priority Data**

*Primary Examiner* — Eliza Z Harvey

Oct. 30, 2018 (JP) ..... 2018-023810

(74) *Attorney, Agent, or Firm* — Paratus Law Group, PLLC

(51) **LOC (14) Cl.** ..... **24-02**

(57) **CLAIM**

The ornamental design for a medical tunneling instrument as shown and described.

(52) **U.S. Cl.**  
USPC ..... **D24/133**

**DESCRIPTION**

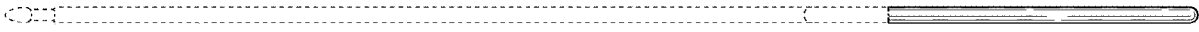
(58) **Field of Classification Search**  
USPC ..... D24/133, 167, 164, 147  
CPC ..... A61B 17/00008; A61B 90/00; A61F 2/06;  
A61M 2025/0008; A61M 2025/09133; A61M  
2210/1078; A61M 25/001; A61M 25/0194;  
A61M 25/09; A61M 29/00; A61M 39/0208;  
A61M 39/10

FIG. 1 is a front view of a medical tunneling instrument showing my new design;  
FIG. 2 is a rear view thereof;  
FIG. 3 is a left side view thereof;  
FIG. 4 is a right side view thereof;  
FIG. 5 is a top view thereof; and  
FIG. 6 is a bottom view thereof.

The broken lines showing of a medical tunneling instrument are for the purpose of illustrating portions of a medical tunneling instrument and form no part of the claimed design.

See application file for complete search history.

**1 Claim, 2 Drawing Sheets**



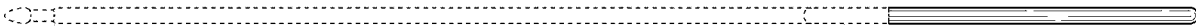


FIG. 1



FIG. 2



FIG. 3



FIG. 4

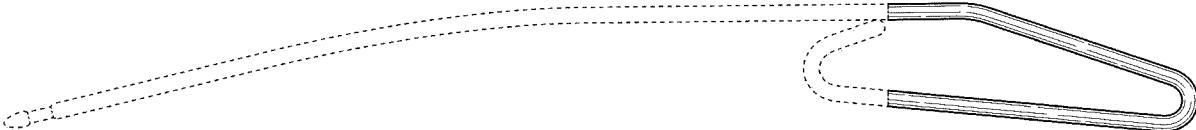


FIG. 5



FIG. 6