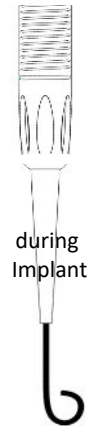




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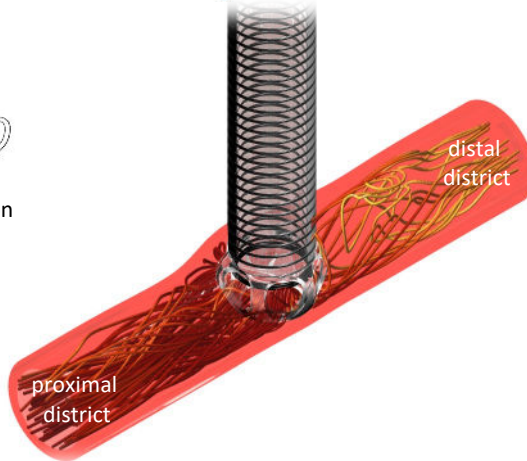
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during  
Implant



during  
perfusion



proximal  
district

distal  
district

## MEDICAL DEVICE

# PERFUSE: peripheral arterial perfusion cannula

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<b>Inventors</b>	Massimo Padalino, Gaetano Burriesci
<b>Priority Date</b>	30/12/2022
<b>Protection</b>	IT 102022000027381

## What we are looking for

We are looking for a suitable partner to enter into license deal/co-development partnership

## What is needed for?

Extracorporeal circulation is the only method used during cardiovascular surgery and requires the use of cannulas which are inserted into the arterial vessels: the cannulas on the market are unidirectional and only allow blood flow towards the heart. Especially in peripheral arterial cannulation, these cannulas can cause hypoperfusion distal to the cannula insertion site, potentially leading to ischemia of the affected organ.

The present invention proposes a multidirectional cannula that can be used both for surgical and percutaneous insertion. This also allows perfusion of the tissues located distal to the cannula itself, thus obviating the problem of hypoperfusion and related ischemic damage.

Therefore, without additional surgical procedures, this cannula would allow insertion on the arterial vessel (for example the femoral artery) with the usual method, and the multi-fenestrated basket design would provide adequate anchoring, whilst allowing blood flow in both retrograde and antegrade directions, ensuring both distal and proximal perfusion.

## Advantages

- The cannula can be inserted and removed using the standard method;
- The device allows both proximal and distal perfusion, avoiding ischemic damage;
- The solution is easily manufacturable with standard techniques.

## Applications

- Cardiac surgery (also pediatric one);
- Emergency surgery (ECMO-ExtraCorporeal Membrane Oxygenation)

## TRL scale

