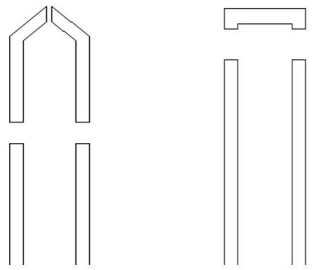
BOLUS CATHETER FOR THERAPEUTIC AND RADIOLOGICAL INJECTIONS

A new catheter design to prevent the whipping effect during high-flow injection, improve the quality of the bolus during radiological or cardiac exams and reduce infections during long term use.

ERGANEO
L'AVENIR EST FAIT D'AUDACE

PRESENTATION

Examination using contrast media is a medical imaging technique that basically allows the visualization of an anatomical structure. The contrast medium is injected by the venous or arterial route via a vascular catheter, either placed for examination or in place used for the administration of long-term intravenous therapy. The proposed invention has two objectives: to reduce or eliminate the whipping effect and to improve the quality of the bolus at the catheter outlet. Removing the whipping effect improves the reliability and safety of the examination by eliminating inappropriate movement and migration of the catheter. Improving the bolus concentration improves the quality of the exam. This catheter (PICCline, Port line or implantable chamber catheter) of long or very long duration, can be used for any injection at a lower or higher flow rate during high-flow flushing.



High pressure implantable chambers - Contrast media
High pressure venous catheters - PICCsline
Central venous catheters - Brachial chamber

COMPETITIVE ADVANTAGES

- High flow injection
- No unwanted withdrawal effects
- Facilitates the formation of a bolus

APPLICATIONS

- Injection of contrast media for cardiac or radiological exams
- PICCS line and PICCs port suitable
- Suitable with usual catheters, radio catheters and interventional cardiology catheters.
- High flow flushing

INTELLECTUAL PROPERTY

EP 16725096.8 ; WO 2016/188894 ; brevets déposés en CN IN US EP JP délivrés en Europe et US

PUBLICATIONS

- Displacement of a power-injectable PICC following computed tomography pulmonary angiogram, Lee J.T.L. & al. (Radiology Case Report) 2017
- Clinical experience with power-injectable PICCs in intensive care patients. Mauro Pittirutil, Alberto Brutti, Davide Celentano, & al. Critical Care 2012
- Maximal Flow rates possible during Power, Injection through Currently available PICCs : An in vitro Study. Ari I.Salis, Anthony Eclavea, Matthew S.Johnson, & al. 2004
- Power injection of contrast media using central venous catheters : Feasability, Safety, and Efficacy. Brian R.Herts, Charles M.O'Malley, Susan L.Wirth, Michael L.Lieber, Brad Pohlman. Feb 2001

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