

Title (en)  
ASPIRATION SYSTEM WITH ACCELERATED RESPONSE

Title (de)  
ASPIRATIONSSYSTEM MIT BESCHLEUNIGTER REAKTION

Title (fr)  
SYSTÈME D'ASPIRATION À RÉPONSE ACCÉLÉRÉE

Publication  
**EP 4171400 A1 20230503 (EN)**

Application  
**EP 21828469 A 20210624**

Priority  

- US 202063044511 P 20200626
- US 202063064273 P 20200811
- US 202017125723 A 20201217
- US 2021038967 W 20210624

Abstract (en)  
[origin: WO2021263033A1] An aspiration system exhibits an accelerated drop in negative pressure at the distal end of an aspiration catheter from the time of opening a valve. The system includes an aspiration pump in communication with a first chamber, and an aspiration catheter configured for placement into fluid communication with the first chamber by way of an elongate aspiration tube. A second chamber is provided between the aspiration tube and the catheter, and a valve is provided between the second chamber and the aspiration catheter. Upon opening of the valve with negative pressure at equilibrium in the first and second chambers, resistance to fluid flow between the second chamber and the distal end of the catheter is less than the resistance to fluid flow between the second chamber and the first chamber, causing a rapid aspiration into the second chamber.

IPC 8 full level  
**A61B 17/22** (2006.01); **A61M 1/00** (2006.01); **A61M 25/00** (2006.01); **A61M 39/02** (2006.01); **A61M 39/06** (2006.01)

CPC (source: EP)  
**A61B 17/22** (2013.01); **A61B 17/22031** (2013.01); **A61M 1/74** (2021.05); **A61M 1/79** (2021.05); **A61B 17/320758** (2013.01); **A61B 2017/00017** (2013.01); **A61B 2017/00168** (2013.01); **A61B 2017/22034** (2013.01); **A61B 2017/22079** (2013.01); **A61B 2217/005** (2013.01); **A61M 25/0097** (2013.01); **A61M 29/00** (2013.01)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2021263033 A1 20211230**; CA 3184745 A1 20211230; CN 115811959 A 20230317; EP 4171400 A1 20230503; EP 4171400 A4 20240807; JP 2023531474 A 20230724

DOCDB simple family (application)  
**US 2021038967 W 20210624**; CA 3184745 A 20210624; CN 202180044454 A 20210624; EP 21828469 A 20210624; JP 2022578803 A 20210624