GoFlex - reconfigurable flexible stripes to create Möbius Bands

TECHNOLOGY SUMMARY

Interconnected reconfigurable flexible stripes attached by integrated joints that can be composed as to build Möbius bands and other geometrical objects. Potential applications are exhibits for mathematical museums, 3D-puzzles, Lego-style building bricks, jewellery (decomposable bracelets).

ADVANTAGES

• Flexible material that allows multiple configurations
• Integrated joints that are not visible in a finished configuration
• Children safe: It is virtually impossible to detach the joints from the stripes

TECHNOLOGY AND IP STATUS

• An experimental setup was designed to find the optimal joint configuration.
• The realized prototype proved to be effective in demonstrating the feasibility of the invention.
• This is a possible alternative to the Chinese Patent CN202897141U, which proposes to attach Möbius stripes with zips. This is also different from the current versions of Flexible Lego Tape and Flexo building bricks.

CONTACT

Dr. Lidia Aguilera - Technology Transfer Officer  T: 46 66 44 – 5255
lidia.aguilera@uni.lu
Université du Luxembourg Tech Transfer & Fundraising – Maison du Nombre (MNO-E05-0525060)
6, avenue de la Fonte, L-4364 Esch-sur-Alzette