

European Inventor Award 2013 - David Gow (SMEs)

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The innovative modular design of the i-limb hand invented by David Gow allows the wearer to move individual fingers and perform complicated grips. This makes it the first 'fully articulated' prosthetic hand in the world. Muscle movement in the residual limb is detected by the hand's on-board computer and translated into movements in the prosthetic. Previous attempts at creating functional prosthetic hands had failed to deliver the range of motion and digit articulation users require for life and work.



HEURE	DESCRIPTION	DUREE
00:00:00	These are our most important tools. Press, turn, grab, pull, lift, tie. They work perfectly together. Our hands.	00:00:14
00:00:14	At the age of nine months, Patrick Kane lost all fingers on his left hand and part of each finger on this right hand. And he can still touch and grab. Thanks to an ingenious invention!	00:00:14
00:00:28	This masterpiece known as the "i-limb" is his artificial hand. Never before has a prosthesis so closely resembled the real thing.	00:00:10
00:00:38	It was developed by David Gow from Scotland. For more than a decade, this engineer has worked on his perfect prosthesis. The result is a technical and medical revolution.	00:00:13
00:00:51	IV David Gow in English: "Artificial hands before the i-limb hand did not give you choices more than one grip. The i-limb hand, because the fingers and thumb are individually moving, can be controlled in different patterns and gives you the choice of many more grips."	00:00:15
00:01:06	Patrick has been using the i-limb for more than two years. This amazing prosthetic means just one thing to him: a better quality of life.	00:00:15
00:01:21	IV Patrick Kane in English: "The i-limb has improved my life dramatically. I mean, it allowed me to do so many things, that I couldn't do before and it lets me be so much more confident and so much more independent, which I owe to the i-limb."	00:00:11
00:01:32	Learning to use the i-Limb correctly takes a lot of practice. But the possibilities are limitless and many more remain to be discovered. The secret of this miracle of technology is that it speaks the language of our bodies.	00:00:16

00:01:48	IV David Gow in English:"The hand works by taking little electric signals that are made, when your muscles contract under the surface of the skin. And picking them up with a electrode sensor like this, which is placed under the surface of the skin."	00:00:12
00:02:00	But it is not only the amazing technology, but also the human will that makes the i-limb prosthesis the miracle that it is.Patrick has come a long way. In the Summer of 2012, he was allowed to carry the Olympic torch.- video runs with no voice over - News like this makes inventor Gow very proud.	00:00:22
00:02:22	IV David Gow in English:"I spent my career trying to develop something, which will actually benefit people and it wasn't a theory, it was actually reality. And I think, when you put this together, it gives you a huge degree of feel good factor."	00:00:14
00:02:36	Gow's incredible invention is so groundbreaking that it has been nominated for this year's European Inventor Award in the category "small and medium sized businesses". The prize is considered by researchers and inventors to be among the most distinguished awards.	00:00:18
00:02:54	Patrick Kane has already made up his mind about who should win the "Technology Oscar".	00:00:07
00:03:01	IV Patrick Kane in English:"David Gow deserves this award, because it's revolutionary, not only for my life, but for everyone who has received one of these arms. It works so well and it is really a life change and I can't think of anyone else, who deserves this award more."	00:00:13
00:03:14	The decision will ultimately be made by an independent international jury.	00:00:06
00:03:20	End	00:00:00