Sound Switcher for live performance

Development status

Phase 4

The transition from the prototype to the final and fully functional form. At this stage, the prototype is already fully tested, or the technology is certified and ready for mass deployment.

IP protection status

CZ Patent, reg. č.: 309875

Partnering strategy

licensing

Anotac

pro živé hraní

Zařízení pro nozhí přeplnání programá avebo zvaků na hudebních přistorijel. (4) učených pro živé henai vyplává ve. MDl podál (1), který je známý z dosavalních saviu učenkly, ředu vynálezu spočívá v tom, že MDl podál (1) je propojený nejenom s hudebním přistorjem (4), ale MDl signál je důle veden do říděcí jehodstý (8), která generuje obrazový signál, a ten jel veden do projektom (4), že kterébo se promié obraz (5) na ploden MDl podálu (1) se spinaků (2), kterým še přepniaje (2) milže vidát název programu nebo zvaku, nebo buzový symbol čí plakogemu přířazevý konkrénim programu nebo zvaku v konkréní zokobe (18).

Institution

University of South Bohemia in České Budějovice

Vlastník

Jihočeská univerzita v Českých Budějovicích

Challenge

When performing live music, musicians need to use more sounds and effects of their musical instruments. This is possible by special accessories. One of them is the MIDI pedal, which is widely used especially by guitarists for switching sounds and effects. MIDI pedals are constructed either quite simply with 4 switches or more complexly with up to 18 switches. It is often difficult for a musician to remember the distribution of sounds on the switches, and they solve the situation in different ways. Either they stick the names of sounds or effects on the switches, or they have a help in the form of a printed table with the layout of the switches and assigned sounds next to them. The intention of this solution is a MIDI Pedal, which would show the name of the assigned sound for each switch separately depending on the selected bank (sounds or effects are grouped into so-called banks). The presented solution also allows differentiation by colors, pictograms or the type of font used.

Description

The innovation of the described solution consists in the interconnection of several devices. A MIDI pedal with multiple switches, a control unit (smartphone, NB, tablet) and a projector. The control unit is equipped with a processor, data storage and a what is essential, SW module containing instructions for evaluating the current information of the switches. The SW module also contains instructions for creating the appropriate image assigned to this current switch position in the current bank. Last but not least, the control unit is equipped with a communication interface. The projector is necessary, it is placed above the MIDI pedal during playing and is adapted to project the image onto the surface of the MIDI pedal to the individual switches. According to the selected sound bank, the projector projects the selected display onto the MIDI pedal switches, and the musician immediately and precisely sees which switch to press for the required sound or effect. The solution is adaptable to any type of MIDI pedal.



Commercial opportunity

Especially the music industry. The device can be used to switch programs or sounds on musical instruments designed for live performance.