

Title (en)  
SOUND-PRODUCING REED FOR WIND INSTRUMENTS

Title (de)  
TONERZEUGENDES BLATT FÜR BLASINSTRUMENTE

Title (fr)  
LAMELLE GÉNÉRATRICE DE SON POUR INSTRUMENTS À VENT

Publication  
**EP 3682441 B1 20221012 (DE)**

Application  
**EP 18734209 A 20180626**

Priority  
• AT 507592017 A 20170912  
• EP 2018067078 W 20180626

Abstract (en)  
[origin: WO2019052702A1] The invention relates to a sound-producing reed made of fiber-reinforced composite materials for wind instruments. The fiber-reinforced composite material is a fiber-reinforced polymer compound, to which hollow microspheres are added. The polymer compound comprises a thermoplastic elastomer. The sound quality of the plastic reed according to the invention can no longer be distinguished from that of the presently used reeds, and the plastic reed according to the invention is even able to reproduce the characteristically dark, soft tone color of the "Viennese sound". The polymer compound according to the invention is additionally suitable for the production of the plastic reed according to the invention in an injection-molding process, whereby good batch uniformity can be ensured in the production. The plastic reed is additionally very stable, and the properties thereof do not change, including during playing.

IPC 8 full level  
**G10D 7/066** (2020.01); **G10D 9/035** (2020.01); **G10D 9/08** (2020.01)

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