

Title (en)  
Musical instrument

Title (de)  
Musikinstrument

Title (fr)  
Instrument de musique

Publication  
**EP 2830038 B1 20210224 (DE)**

Application  
**EP 14185620 A 20060904**

Priority  
• EP 14185620 A 20060904  
• EP 06018419 A 20060904

Abstract (en)  
[origin: WO2008028847A1] Disclosed is a method for improving the sound of acoustic musical instruments by suppressing energy storage effects resulting in undesired interferences and distorted sounds. This is done by specifically directing the sound energy (kinetic disposal) away from parts not directly required for generating sound before the sound energy can influence the desired, primary sound event of the musical instrument. In a second aspect, the lowest energy level for generating sound, and thus the optimal initial state of all instrument parts required for creating the primary sound event, is restored as quickly as possible by means of said kinetic disposal. The kinetic disposal is obtained by arranging at least one crystalline member (1) that has a sound velocity of more than 8000m/s in the solid, on a part (5) located in the passive zone of the musical instrument.

IPC 8 full level  
**G10D 3/22** (2020.01); **G10C 9/00** (2019.01); **G10D 9/08** (2020.01)

CPC (source: EP US)  
**G10C 9/00** (2013.01 - EP US); **G10D 3/22** (2020.02 - EP US); **G10D 9/08** (2020.02 - EP US)

Citation (examination)  
• ANONYMOUS: "Piano - Wikipedia, the free encyclopedia", 30 August 2006 (2006-08-30), XP055453037, Retrieved from the Internet <URL:https://web.archive.org/web/20060830174758/https://en.wikipedia.org/wiki/Piano#Other\_types\_of\_pianos> [retrieved on 20180221]  
• ANONYMOUS: "How Pianos Work - Piano Construction, Function and Technical Books", 20 June 2006 (2006-06-20), XP055453057, Retrieved from the Internet <URL:https://web.archive.org/web/20060620030819/http://www.concertpitchpiano.com/GrandPianoConstruction.html> [retrieved on 20180221]

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

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**WO 2008028847 A1 20080313**; CN 101512635 A 20090819; EP 1914714 A1 20080423; EP 2830038 A1 20150128; EP 2830038 B1 20210224; JP 2010503037 A 20100128; US 2010050850 A1 20100304

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**EP 2007058980 W 20070829**; CN 200780032697 A 20070829; EP 06018419 A 20060904; EP 14185620 A 20060904; JP 2009527114 A 20070829; US 43981707 A 20070829