

Title (en)  
LASER PICKUP

Title (de)  
LASER PICKUP

Title (fr)  
PHONOCAPTEUR LASER

Publication  
**EP 2321820 A1 20110518 (DE)**

Application  
**EP 09776755 A 20090616**

Priority  
• EP 2009004355 W 20090616  
• DE 102008044933 A 20080829

Abstract (en)  
[origin: WO2010022809A1] The invention relates to a method for determining the pitch of a vibrating string (1) of a string instrument as well as a string instrument comprising at least one such string (1) that is mounted between a bridge (2) and a nut (3). The string (1) can be fixed to a specific attachment point between the bridge (2) and the nut (3) by means of a member (4) in order to generate a sound that is higher than the basic pitch. The distance (D) between the bridge (2) and the attachment point is determined by means of an optical measuring device (6, 7), and the pitch of the vibrating string (1) is then determined from the distance (D).

IPC 8 full level  
**G10H 1/34** (2006.01); **G10H 1/14** (2006.01); **G10H 3/18** (2006.01)

CPC (source: EP US)  
**G10H 1/14** (2013.01 - EP US); **G10H 1/342** (2013.01 - EP US); **G10H 3/185** (2013.01 - EP US); **G10H 3/188** (2013.01 - EP US); **G10H 2210/066** (2013.01 - EP US); **G10H 2220/165** (2013.01 - EP US); **G10H 2220/305** (2013.01 - EP US); **G10H 2220/421** (2013.01 - EP US); **G10H 2220/465** (2013.01 - EP US)

Citation (search report)  
See references of WO 2010022809A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**WO 2010022809 A1 20100304**; **WO 2010022809 A4 20100506**; CA 2735674 A1 20100304; CN 102138174 A 20110727; DE 102008044933 B3 20100422; EP 2321820 A1 20110518; JP 2012501003 A 20120112; US 2011132180 A1 20110609

DOCDB simple family (application)  
**EP 2009004355 W 20090616**; CA 2735674 A 20090616; CN 200980134047 A 20090616; DE 102008044933 A 20080829; EP 09776755 A 20090616; JP 2011524208 A 20090616; US 200913058157 A 20090616