

Title (en)  
INPUT DEVICE, WEBCAM AND SCREEN HAVING A VOICE INPUT FUNCTION

Title (de)  
EINGABEGERÄT, WEBCAM UND BILDSCHIRM MIT SPRACHEINGABEFUNKTION

Title (fr)  
APPAREIL DE SAISIE, WEBCAM ET ECRAN A FONCTION D'ENTREE VOCALE

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Application  
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Abstract (en)  
[origin: WO03042802A2] The invention relates to a manual input device (1, 1') for producing control signals for real and/or virtual objects. According to the invention, a microphone (3) is integrated into the housing (2, 2') of the manual input device, for recording and converting acoustic voice control signals of a user, thus relieving the user of the handling of the input device (1, 1'). The interface (8) between said input device (1, 1') and a computer (7) can also be used for the transmission of acoustic voice control signals or the evaluation of the same, reducing the number of occupied connections (6) of the computer (7). Furthermore, a processing unit (4), such as an ASIC, can be provided in the housing of the manual input device (1, 1'), said processing unit subjecting the output signals of the microphone (3) to an algorithm for automatic speaker identification, and voice recognition, analysis and/or interpretation. In this case, not only acoustically or electrically converted signals are transmitted from the manual input device (1, 1') to the calculation unit (7), but rather instructions which can be directly processed by a computer (7). The inventive manual input device (1, 1') can be advantageously operated with driver software which automatically activates a voice control function (recording and conversion of acoustic voice control signals), as soon as the manual input device (1, 1') is connected to a connection (6) provided therefore of the calculation unit (7). The voice control activation function can be directly integrated into the driver software which is used to convert the control signals for the cursor or object control system. According to the invention, the converted and processed voice control signals, together with the remaining control instructions, can be transmitted to the calculation unit (7) via a common wire-bound or wireless interface (8).

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