

[SS 1] EMG and portable

Results in EPODOC 34

[SS 2] 1 and speech

Results in EPODOC 0

[SS 3] 1 and gesture

Results in EPODOC 1

[SS 4] ..li



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PA - UNIV MIYAZAKI

TI - AUTHENTICATION METHOD AND
USER AUTHENTICATION DEVICE

AB - PROBLEM TO BE SOLVED: To
provide an authentication
method capable of
authenticating a **gesture** of a
user by using not only a result of
behavior which is contact and
the like, but also a step of the
behavior.SOLUTION: A **portable**
device 3 is attached to a user by
an attachment part 19, and an
s-**EMG** signal detection part 15
detects an s- **EMG** signal by the
sensor. The s- **EMG** signal is
generated by electrical activity
of muscle fibers during
shrinkage, and is detected on a
skin surface. An authentication
device 5 uses the s-**EMG** signal
detected according to a **gesture**
of a user, for authentication.
The **gesture** may be for example,
bending of finger(s) or wrist. The
user can perform the **gesture**



with concealment, for example in a pocket. If the **gesture** is realized by a third person, the s-**EMG** signal of the third person is different from the s-**EMG** signal which is detected during a step of the **gesture**, so that it is possible to refuse use.SELECTED
DRAWING: Figure 1

[SS 4]