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## BRIEF DESCRIPTION

5        **Metrological device for automatically monitoring a**  
         **broadcasting network, and a broadcasting network**  
         **including such a metrological device**

         The invention concerns a metrological device (200)  
10    for monitoring an upline broadcast signal comprising a  
      main component and upline control data. The metrological  
      device (200) includes an extraction circuit (220) for  
      extracting the upline control data from the upline  
      broadcast signal and delivering an upline instruction,  
15    and a measuring circuit (230) for measuring a parameter  
      of the upline broadcast signal according to the upline  
      instruction and delivering a measurement result.

         In accordance with the invention, the metrological  
device (200) also includes:

- 20        - a control circuit (250) for producing a downline  
         instruction from the measurement results and an upline  
         result produced by the extraction circuit (220) from the  
         upline control data,  
         - an insertion circuit (240) for producing a  
25    downline signal to broadcast comprising firstly the main  
      component of the upline broadcast signal and secondly the  
      downline control data containing the downline  
      instruction.

         The invention also concerns a broadcasting network  
30    using such a metrological device.

         See figure 2

## TRADUCTION LEGENDES FIGURES

## Figure 1

mesure = measurement

instruction = instruction

5 Résultat mesure = Measurement result

Supervision = Supervision

## Figure 2

10 extraction = extraction

insertion = insertion

instruction amont = upline instruction

instruction aval = downline instruction

Résultat amont = Upline result

15 Résultat aval = Downline result

Commande = Control

## Figure 3

20 métrologie rang N / N-1 = Level N / N-1

metrological device

STATION RELAIS = RELAY STATION