

Title (en)  
SCALE FOR FLUIDIZED BEAD BED AND METHOD FOR USING SAME.

Title (de)  
WASSERBETTWÄGEVORRICHTUNG SOWIE DEREN ANWENDUNGSVERFAHREN.

Title (fr)  
ECHELLE POUR LIT FLUIDISE A SPHERES ET SON MODE D'EMPLOI.

Publication  
**EP 0571368 A4 19930518 (EN)**

Application  
**EP 90917136 A 19901029**

Priority  
US 42822689 A 19891027

Abstract (en)  
[origin: WO9106836A1] A fluidized bead bed (10) having a scale (14) integrated into the frame (12, 13) of the bed for providing a continuous readout of the weight of a patient supported on the upper surface (26) of the bed. The bed includes a fluidized bead bed support mounted atop a frame such that a torque, corresponding to the supported load is transmitted to the beam arms (36) cantilevered from each end of the frame and extending to the longitudinal median of the bed along one side thereof. Springs (44) oppose the torque and LVDT's (37) are provided at the distal ends of the arms (36) to produce an electrical signal with pulses of an amplitude related to the weight of the patient on the bed. A control panel (30) incorporates a signal processor for providing an accurate but readable output base on the LVDT signals.

IPC 1-7  
**G01G 19/44**

IPC 8 full level  
**G01G 19/44** (2006.01)

CPC (source: EP)  
**G01G 19/445** (2013.01)

Citation (search report)

- [XP] US 4926951 A 19900522 - CARRUTH WALTER L [US], et al
- [A] US 4038973 A 19770802 - MOORE MARY A
- See references of WO 9106836A1

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**WO 9106836 A1 19910516**; AU 6743790 A 19910531; EP 0571368 A1 19931201; EP 0571368 A4 19930518

DOCDB simple family (application)  
**US 9006264 W 19901029**; AU 6743790 A 19901029; EP 90917136 A 19901029