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(30) 60/187,883 2000 03 08 (US)

(73) 20692 2

(72) 가 34602 44

34525 7

36790

가 가 49556 21

(74)

:

(54)

(10) CMOS (24), (10) CMOS (24) (24) CMOS (26) (illumination sour  
ce)(23) CMOS (24) (optical system)

1  
2  
3  
4  
5

CMOS

(endoscope)  
(small intestines)

가

(swallowable electronic capsule)

가

5,604,531

" (Heidelberg)"

pH,

(gastrointestinal)(GI)

ty)  
xide semiconductor)(CMOS)

(lumen) (cavi  
(complementary metal o  
CMOS

(radio frequency)(RF)

CMOS  
CSP)

RF

(chip scale packaging)(  
가

CMOS

, CSP RF

iode)(LED)

LED

LED

RGB

(light emitting d

CMOS (in vivo site) (illumination source)  
 CMOS (optical system)

LED (refracting crystal) " LED" LED ( )  
 LED LED  
 (infra red)(IR)

가 LED  
 (optical window) (housing)

CMOS CMOS

(datastream) (antenna array) (tr  
 acking)

GI

CMOS LED CMOS GI

d)(NO) , RF (normally opene  
 NO (inactive)

(logistics) 가

, CMOS

(23), CMOS (24) CMOS (10) (21) GI  
 (22) CMOS (23) (21) CMOS (24) LED  
 (24) CMOS (26) (10) CMOS

(silver oxide battery) (25) CMOS CMOS

CMOS (24) ( )

(10) 가 GI

heter) (laparoscope), (stent), (needle), (cat

(endoscopic device)

CMOS (24) ( 2 ) (camer

a on chip)" CMOS (Photobit Corporation) "

CMOS (24) CMOS

(22) CMOS (aspherical focussing lens)

가 가

(23) (21) (22) CMOS (24)

(21) CMOS (24) (23) (dome) 가

WO 00/76391

11×30mm (small intestine)

LED LED IR

IR ( )가 CMOS

CMOS ( ) , RF

31 ( ) 5,604,5

(10) pH, ( )



LED (403) (433) LED (431) LedRes(435) (432) LED ( )

(400) (405) (405) (405)

(406) (normally opened; NO) (406) NO (405) " (normally closed; NC)" 가

(405)가 NO ,

1 3% (406)

CMOS LED, PCT IL00/00752( (magnetic packaging) (405)

(400) 1.35 가

5 (502), (504), (506), (508), (510), (512)

(502) LED (alternating) (504) CMOS (co

Illimator) (506) ("0" "1") 가

(510) 2 8 ( 432 4 34Mhz) 가

5,604,531

(512) GI GI GI (video clip) , RAPID ( (trajectory)

GI

(GI)

CMOS LED 5 11x30mm

가 (ambulatory dogs) 6

(bowl) 2

(57)

1. CMOS (site in vivo) (illumination sou CMOS  
rce), CMOS (optical system),

2. 1

LED

3. (gastrointestinal tract) (swallowable capsule)

CMOS

CMOS

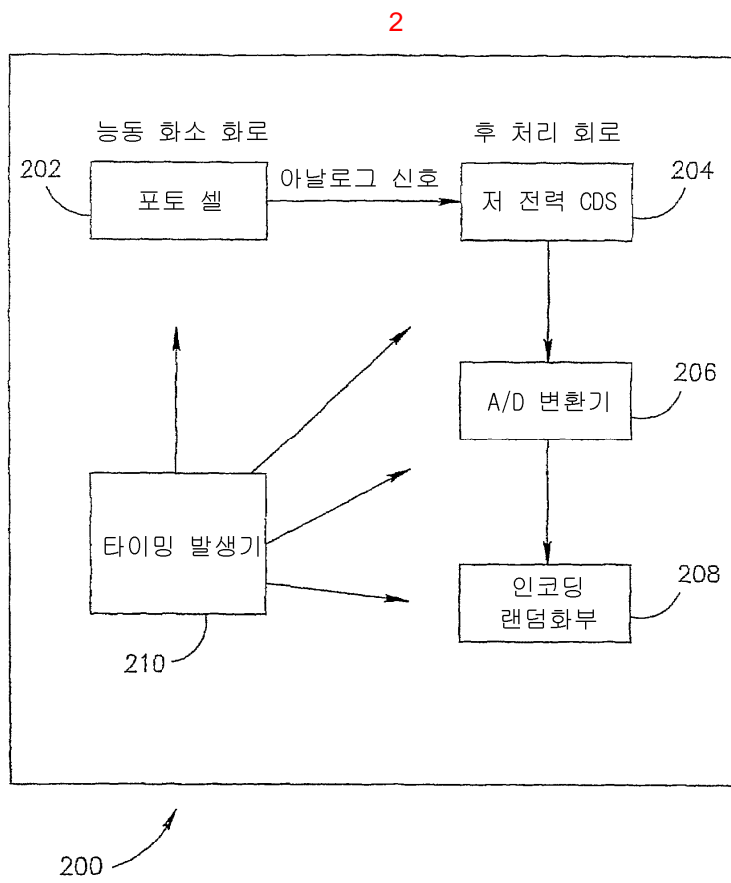
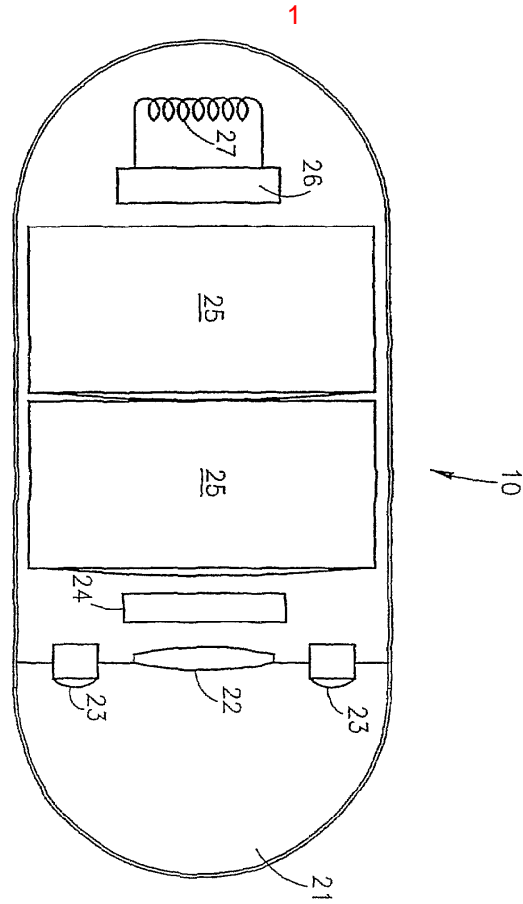
CMOS

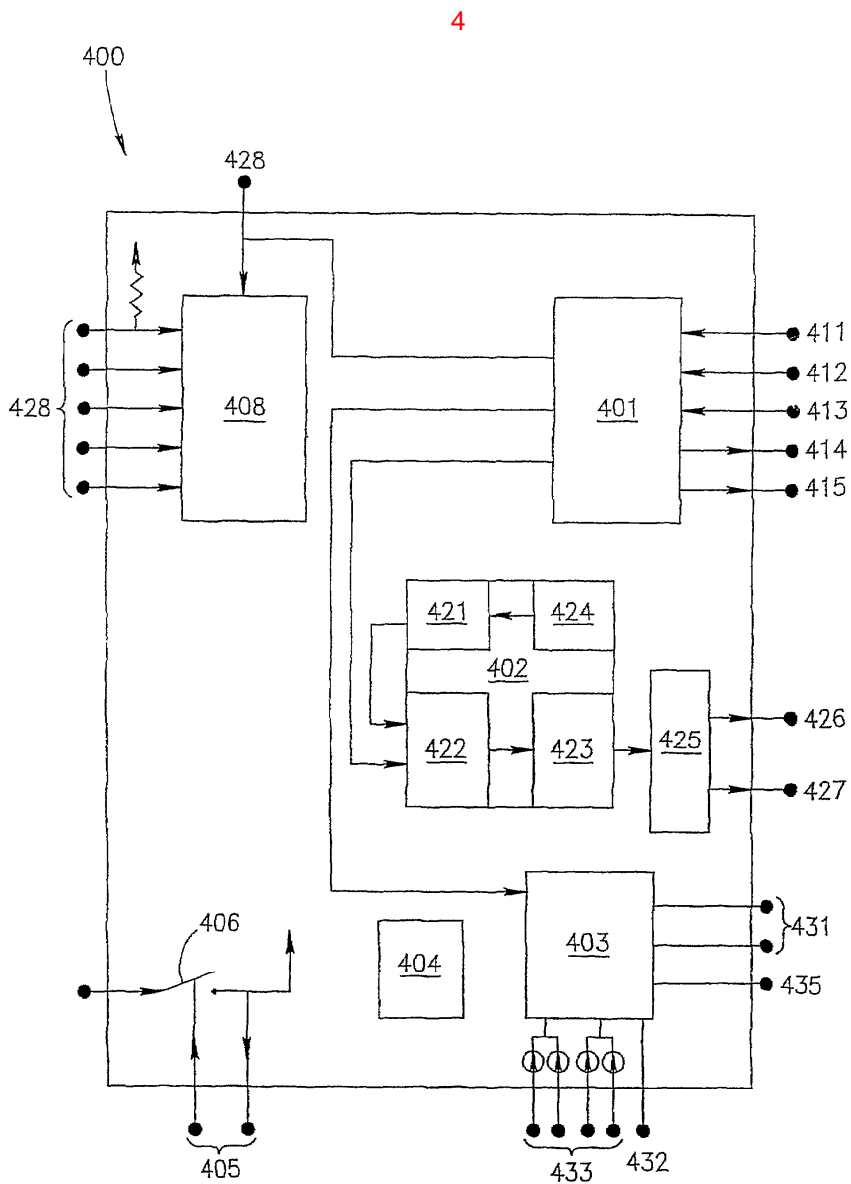
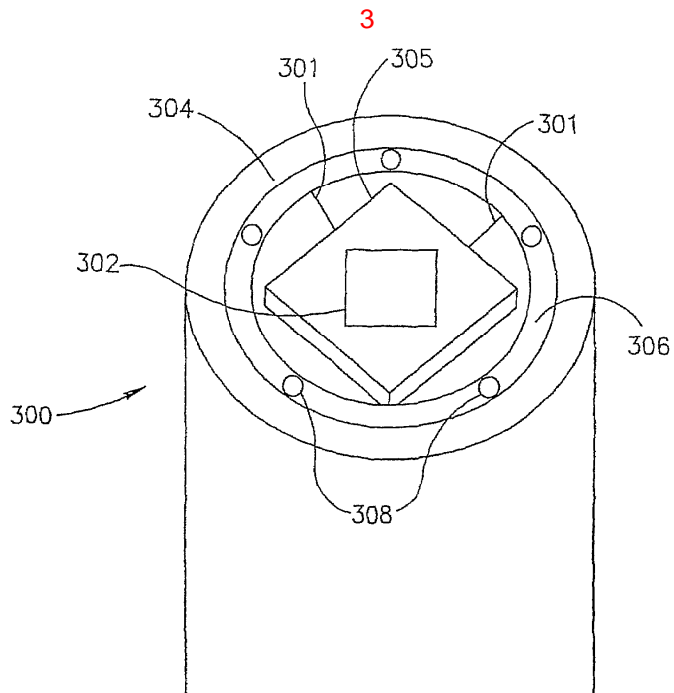
4.

CMOS

CMOS

(optical system)





5

