



(44) (22) (43) (43)  
 가 (20) 가 ; ; 가 가 (26)  
 (data entry system); (generator);  
 (compliance signal) 가

1

가 (raw material) 가 가 가  
 가 가 가  
 (certification) (certificate of conformance)  
 가 (batch) (certificate of analysis; COA) 가  
 가 가  
 (Corrective Action Request; CAR)  
 40 C.F.R. 820 가 (Good Manufacturing Practices; GMP)  
 가 (traceability), (quality control system)

(manual) (computer-assisted)  
 가 ( )  
 (common central destination)가

가

3

가

가

가

가

가

(material property specifications)

가

가

(quality audits)

(GMP)

- ;

가

- ;

가

가

-

가

(data entry system);

(generator);

가

(compliance signal

)

(electronic network)

;

;

가

가

;

;

;

;

;

;

;

;

가

;

가

;

(operator)

;

;

가

가

(file)

가

(batch)가

(automatic

determination) 가, (batch number)  
 ) (decision-making tool)

가,

1

2 1

3 1

(composition)

(disposal products), (personal care articles)(consumer products)  
 (diaper), HUGGIES PULL UPS- (tampon),  
 ), (absorbent article)(training pants)  
 ), (sterile wrap), 가, (paper towel),  
 (wound dressings), (injection molded) (catheters),  
 ds), 가, (dry wall), (prefabricated beams), (durable goo  
 (concrete mix), (electronic component)(roofing material),  
 ),

가

(radial tires) 가  
 가 (polymer films), (airlaid webs) (fibrous webs),  
 (fluff pulp), (cellulosic fibers), (elastic materials),  
 (superabsorbent particles), (hook and loop) 가  
 (wood pulp), (wet strength resins), (creping adhesives), (e  
 mollients), (debonder), (starch) (starch derivatives), (silicone compo  
 unds) (moist bath tissue), (wet wipes)  
 (extracts), (flavorings), (spices), 가 (additives), (pre  
 servatives), (colorings)

(batch)

가

(unit)

24

(batch process)

(continuous process)

(mill)

가

(manufacturing parameters)

24

ID

(lot number)

1 (20)가 (10)가 (22)가 (50)  
 (20) (22) (24) (secure in  
 terface)(26) (22) (automatic uploading)  
 (automatic reading) (electronic form) 가  
 ormation Management System; LIMS)( ) (Laboratory Inf

(10)  
(22)

ID

(22)

(version)

(polyolefin)

01) 가

( , PP-M3400-002)  
( , PP-M3400-0

(22)

(22)

(check box)

(selection box)

(displa

y box)

(private network)

(22) (20) (50) (22)

(22) (20) (22) (22) (22)

) / (22) (20) (20) (20) 1999 12 20 0

9/467,317 , A. Harthcock , 2001 6 28 WO 01/46883

)' (Method and System for Specifying Materials)' (fingerprint matching (20)가

가 (50) (42) (22) (well-specified) (50) 가 (22)

(gradient)가 가 (20) (22)

(22) 가 (50) (20)

(20)가 (22) 가 가 (20)

가 (50) . WO 01/46883 가 가

(44) (22) 가

(28) (26) (20)가 (70) (28)

(70) ) (70) (28)

(70) (electronic signature) 가 가

(50) 가 Clyde Computing Q-SYS

(Michigan, Southfield) Murphy Software DBQ(Database for Quality) (20)

(70) (Minnesota St. Cloud) EMR Innovations The Process Pro Manufact

uring

(22)가 (34) (70) (42)

(22)가 (34), (22)가 (20) (50)

(22)가 (36) (36) (electronic notice)가 (70)

(50) 가

(50) (70) (30). (receiving station)

가 (70) (10) (38) (39). (50) (22)

(70) (10) (20) 가 가

(10) (20) 가

acceptance indicator), 'Y' 'N' (22)

가

(22) (20) 가 (22) (descriptor) (20) 가 가 (20) (70)가 (22) (70) (22) (22) (centralized certificate of analysis)가 (22) 가 (audit trail) (38), (50) (70) (22) (10) (22) (70) (70) (22)가 가 (70) (70) 가 (activation) 가 가 (22)가 (flashing) (22)가 (22)가 (timeline), (22) (accounting) (44) (22) (20) 가 (42). (42) (20) (50) (CAR) ( ) (20) (non-conformance), (20) CAR (20) 가 (50) (20) (44) 가 (2) (10) (70) (20) (external suppliers)(54) (internal supplier)(52) (52) (50) (intranet)(56) (LAN) (52) (50) ( ) (adhesive compositions), (50) (tissue layers), (liner) (odor control) (cuffs) (44) (54) (50)가 (44) (22) (50) (62) ( )

62) (firewall)(60) (50) (10) ( ) , (58) (54) (60)

(68) , (44) (68)

(52) (62) (54) (58) (secure connection) (50) ,

(electronic format) (10) (70) (64)

/ 가 (68) 가

(20) , 가

(50) (special instructions), (administrative actions)(66) (64) (56) (22)가 가

(22) (70) , 가

(66) (20) (20) , 가 (70) ,

(70) (22) ( ) (70) , (22) 가 (20) 가 (50) 가 (70) , (70) 가

(raw data) , 가 (70) (Material Data Safety;

MDS)

3 (54), (52), ( ) (100) (60) (54) (80) (50) UR

L (60) . URL (60) 1 (84), CISCO- (primary) (secondary DNS)(90)가 URL (domain name server; DNS)(88) 가

(92) , (80) (82) ID ID (authentication server)

(94) , (60) , SQL ID/ 가 (86) ID 가 (92)

(10) 2 가 (80) , 가 (54) , (54)가 ( )

가 가 (54) , (54)가 ( )

96), WinSpex , 2 (86)  
 (92) , (54)

·

· , - XQuery, XML , XQuery

· , XML

·

가 (70)

· 가 (54)

· 가 (60) 2 (86) , (96)

(92) , (22) 가

· , (92)

· , ID, 가

· , (96)

· (96)

(96) (82)

(70) (22)가 가

(70) (54) (22) (70) (50)

(70) (50)가 (96)

(70) (70)가 가

(70)

3 (52) , 가

(52) (proxy server)(102) (10) (104)

URL , 가 (96)

(22) (104)

(70) , (Maestro server)(98) (70)

) , , 가 , 가

·

(100) (100) (108) (102) (10) (104)

(96)

(100) , (22) , 가

·

(70) / (22) (10)

· , (100)

· , 가

(20)가

(10) (10)

· , GMP

· (100) (20)가 , (100)

(time stamping)

가 (10) , 가 (22) ID 가 (10) , 가 (100)(  
(interactive electronic training system) (10) (10)  
ID (100) 가 (10)  
(10) ID (100)  
(10) , (bo  
x) (editorial inf  
ormation) (20)  
(10) (100) 가 가 (100)  
(20) (20)  
(20)가 가 (22) , (22) , (20)가  
가 가 (22) (22)가 , (20)가  
(22)  
(10)  
(10) (integrated manufacturing system)  
1994 5 10 5,311,438 , (Integrated Manufacturing S  
system)' 가 WonderWare , Rockwell , Microsoft ,  
(vendors)  
(10) (electronic data interchange; EDI) SAP  
(distributed control system; DCS) (10) (computer-  
integrated manufacturing) (10) SAP/R3  
(business application programming interfaces; BAPIs) S  
AP (encapsulation)가 SAP SAP Microsoft COM/DCOM  
(connector) , Microsoft- SAP R/3  
Microsoft Active X COM/DCOM . ActiveX Proficy Certi  
ficate of Analysis Wizard (tool)  
(10) Gibson-Graves TRAQ-1 (Quality Data  
Management System) . VAX 가  
(statistical process control; SPC)  
가 (module)  
(control chart), (Pareto) , (cusum) , x-y . DBQ  
(10)  
(10) (New Jersey Bridgewater) Teratec Ter  
atec e-Compliance ™ Soluton(TeC) 21 CFR 11  
(secur e repository)  
(Access Control Lists; ACLs)



(generator);

(compliance signal)

가

2.

1 ,

가

3.

2 ,

4.

1 ,  
tion)

(identification verifica

5.

1 ,

(manually - entered data)

6.

1 ,

(electronically - entered)

7.

1 ,  
,

가

(operator)가

8.

1 ,

(material property codes)

9.

1 ,

10.

1 ,

11.

1 ,

(component)

12.

1 ,

13.

1 ,

14.

1 ,

15.

1 ,

(certificate of analysis)

- 15 16. , .
- 15 17. 가 , .
- 1 18. , .
- 1 19. , .
- 1 20. (intranet) .
- 1 21. (integrated manufacturing system)
- 1 22. (electronic data interchange system)
- 1 23. (quality control software system)
- 1 24. (access security system)
- 1 25. (vendor inventory management system)
- 1 26. (error correction means)
- 1 27. (time stamping)
- 28. (compliant raw material) , ;

가 , 가 ;

;

28 29.

29 30.

29 31. 가 , 가

28 32.

28 33.

28 34.

28 35.

28 36. 가

36 37.

36 38. 가 ,

28 39.

28 40.

28 41.

28 42.

28 43.

44.

28

45.

28

가  
(Web-based interface)

46.

가

가

47.

46

48.

46

가 가

49.

46

50.

46

51.

46

52.

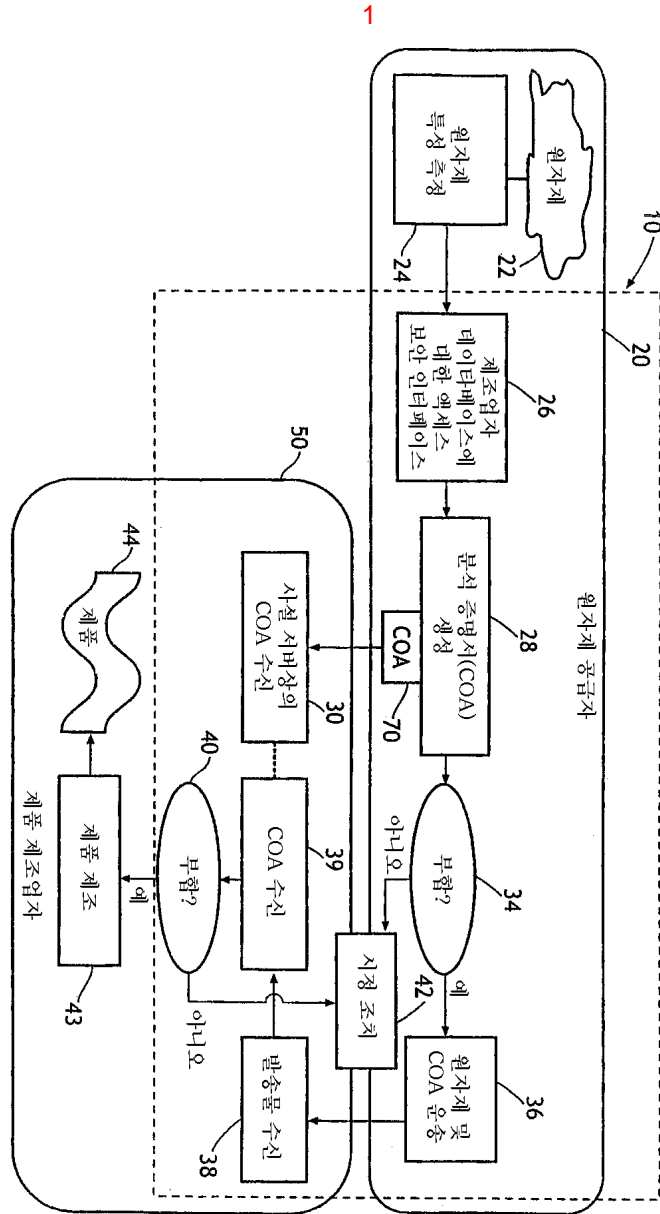
51

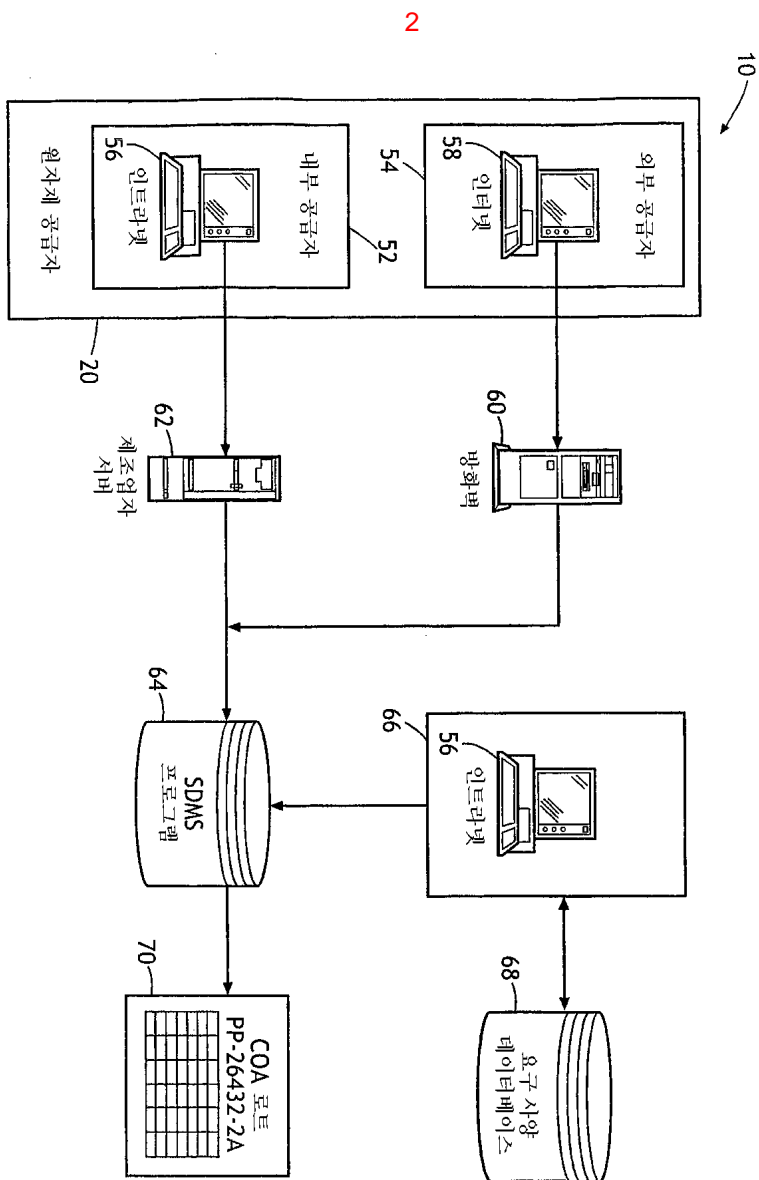
53.

46

가

- 53     **54.**     ,     .
- 53     **55.**     ,     가     ,
- 46     **56.**     ,     .
- 46     **57.**     ,     .
- 46     **58.**     ,     .
- 46     **59.**     ,     (quality control software system)
- 46     **60.**     ,     (access security system)
- 46     **61.**     ,     (vendor inventory system)
- 46     **62.**     ,     .
- 46     **63.**     ,     .
- 46     **64.**     ,     가     ,     가





3

