

PATENT: 6,233,181

INVENTORS: Hidaka, Hideto

TITLE: Semiconductor memory device with  
improved flexible redundancy scheme

APPLICATION NO: US1999251352A

FILED: 17 FEB 1999

ISSUED: 15 MAY 2001

COMPILED: 19 MAR 2015



SEMICONDUCTOR MEMORY DEVICE WITH IMPROVED FLEXIBLE  
REDUNDANCY SCHEME

Transaction History

Date	Transaction Description
2/17/1999	Workflow - Drawings Finished
2/17/1999	Workflow - Drawings Matched with File at Contractor
2/17/1999	Workflow - Drawings Received at Contractor
2/17/1999	Request for Foreign Priority (Priority Papers May Be Included)
2/17/1999	Information Disclosure Statement (IDS) Filed
2/17/1999	Information Disclosure Statement (IDS) Filed
2/23/1999	Initial Exam Team mn
3/8/1999	IFW Scan & PACR Auto Security Review
3/16/1999	Application Dispatched from OIPE
3/24/1999	Case Docketed to Examiner in GAU
10/8/1999	Case Docketed to Examiner in GAU
1/10/2000	Mail Restriction Requirement
1/10/2000	Restriction/Election Requirement
2/10/2000	Response to Election / Restriction Filed
2/15/2000	Date Forwarded to Examiner
4/10/2000	Non-Final Rejection
4/12/2000	Mail Non-Final Rejection
10/11/2000	Response after Non-Final Action
10/11/2000	Request for Extension of Time - Granted
10/20/2000	Date Forwarded to Examiner
1/16/2001	Mail Notice of Allowance
1/16/2001	Notice of Allowance Data Verification Completed
2/21/2001	Workflow - File Sent to Contractor
3/26/2001	Issue Fee Payment Verified
4/14/2001	Workflow - Complete WF Records for Drawings
4/18/2001	Application Is Considered Ready for Issue
4/27/2001	Issue Notification Mailed
5/15/2001	Recordation of Patent Grant Mailed

3. D.S.	2-17-99	44.
4. Photo Paper	2-17-99	45.
5. Restraints (1 mt)	1-10-00	46.
6. Electro	2/10/00	47.
7. Restraints (3 mths)	4-12-00	48.
8. Eft of June (3)	10-11-00	49.
9. Dmblt a	10-11-00	50.
10. PDL-37/Er AndltB	1/16/01	51.
11.		52.
12.		53.
13.		54.
14.		55.
15.		56.
16.		57.
17.		58.
18.		59.
19.		60.
20.		61.
21.		62.
22.		63.
23.		64.
24.		65.
25.		66.
26.		67.
27.		68.
28.		69.
29.		70.
30.		71.
31.		72.
32.		73.
33.		74.
34.		75.
35.		76.
36.		77.
37.		78.
38.		79.
39.		80.
40.		81.
41.		82.

(LEFT OUTSIDE)



- (Through numeral) ... Allowed  
 + ..... Canceled  
 + ..... Restricted

I ..... Interference  
 A ..... Appeal  
 O ..... Objected

Claim		Date			
Final	Original				
	01	04	01		
	07	08	12		
	08	01			
1	4				
2	5				
3	6				
4	7				
5	8				
6	21				
7	22				
4	23				
5	24				
	25				
	26				
	27				
	28				
	29				
	30				
	31				
	32				
	33				
	34				
	35				
	36				
	37				
	38				
	39				
	40				
	41				
	42				
	43				
	44				
	45				
	46				
	47				
	48				
	49				
	50				

Claim		Date			
Final	Original				
	51				
	52				
	53				
	54				
	55				
	56				
	57				
	58				
	59				
	60				
	61				
	62				
	63				
	64				
	65				
	66				
	67				
	68				
	69				
	70				
	71				
	72				
	73				
	74				
	75				
	76				
	77				
	78				
	79				
	80				
	81				
	82				
	83				
	84				
	85				
	86				
	87				
	88				
	89				
	90				
	91				
	92				
	93				
	94				
	95				
	96				
	97				
	98				
	99				
	100				

Claim		Date			
Final	Original				
	101				
	102				
	103				
	104				
	105				
	106				
	107				
	108				
	109				
	110				
	111				
	112				
	113				
	114				
	115				
	116				
	117				
	118				
	119				
	120				
	121				
	122				
	123				
	124				
	125				
	126				
	127				
	128				
	129				
	130				
	131				
	132				
	133				
	134				
	135				
	136				
	137				
	138				
	139				
	140				
	141				
	142				
	143				
	144				
	145				
	146				
	147				
	148				
	149				
	150				

If more than 150 claims or 10 actions  
staple additional sheet here

(LEFT INSIDE)

# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

## LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

## FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

## E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.