the oven.

POST-EVENT:

No injuries occurred. The 57-year old female had stepped to the left of the oven just prior incident.

The glass pan and cake were lost. No damage appeared on or in the oven.

PRODUCT INFORMATION/INDENTIFICATION:

The jagged glass fragments and cake pieces were photographed. The smaller glass pan of the 2-pan set was also examined. Complete labeling located on the reverse side of the smaller pan is as follows:

Anchor Ovenware
BAKING DISH
8 X 11.5 X 2 in 2 Qt
200 X 290 X 50 mm
Oven and Microwave Safe
USA 13 1031
No Stovetop or Broiler Use

Partial labeling from a fragment of the shattered glass pan is as follows:

Anchor Ovenware
BAKING DISH
9.5 X 13.5 X 2 in 3 Qt
??1040

CPSC reference material indicate the manufacturer of these glass glass products to be ANCHOR HOCKING GLASS CORP., LANCASTER, OHIO.

The brand name and manufacturer of the gas oven/range is as follows:

O'Keefe & Merritt
The Tappan Company
Mansfield, Ohio

Serial Number: 366868-00/02008-380118007

STANDARDS INFORMATION:
None.

EXHIBITS:

Investigation Guideline #6
Adjusted Record Data Sheet/Cooking Material Explosion
Photos
Negatives
Authorization for Release of Name
Incident Report

CONTACT	REASON	RESULT
Consumer	Product ID/Sceanrio	Same
Fire Chief	Possible Report	None

CONSUMER PRODUCT INCIDENT REPORT

F117008

NAME OF RESPONDENT	2. TELEPHONE NO. (Home) (Work)	
JAMES DELK	817-325-2349	Task #910122CWE7008 ANCHOR Ovenware Explosion
STREET ADDRESS: 1602 SW 12th Ave.	4. CITY: Mineral Wells, Texas	STATE

DESCRIBE ACCIDENT SITUATION OR HAZARD, INCLUDING DATA ON INJURIES. (Use second page if necessary.)

Fire Chief Jerry Van Netta of Mineral Wells contacted CPSC to report an incident where a pyrex dish exploded in a gas oven. Details of damage are unknown at this time.

DATE OF INCIDENT(S)	7. IF INJURY OR NEAR MISS, OBTAIN	8. IF VICTIM DIFFERENT FROM RESPONDENT, PROVIDE
1/91	AGE NA SEX F AND DESCRIBE INJURY No Injury	NAME Spouse of above consumer RELATIONSHIP

DESCRIPTION OF PRODUCT	10. BRAND NAME
Gas Oven and Pyrex Dish	unknown
MANUFACTURER/DISTRIBUTOR NAME, ADDRESS & PHONE	12. MODEL, SERIAL NO.'S
Unknown	Unknown
	13. DEALER'S NAME, ADDRESS & PHONE
	Unknown

IS THE PRODUCT DAMAGED, REPAIRED OR MODIFIED?	15. PRODUCT PURCHASED NEW ____ USED ____
____ NO ____ IF YES, BEFORE OR AFTER THE INT? Unknown	DATE PURCHASED Unknown AGE
	16. DOES PRODUCT HAVE WARNING LABELS? IF SO, NOTE:

YOU CONTACTED THE MANUFACTURER?	18. IS THE PRODUCT STILL AVAILABLE?	19. MAY WE USE YOUR NAME WITH THIS REPORT?
____ NO XX IF NOT, DO YOU PLAN TO T THEM? YES ____ NO ____	YES XX NO ____ IF NOT, ITS DISPOSITION	YES ____ NO ____ Unknown

FOR ADMINISTRATION USE

RECEIVED	21. RECEIVED BY (Name & Office)	22. DOCUMENT NO.
8/91	JOAN E. GREGG, PSI, FOWR/DAL	F117008
FOLLOW-UP ACTION: TASK #910122CWE7008		24. PRODUCT CODE(S): 0461 0262
ACTION: O: FOWR cc: DSO for Assignment SEPT 15 1991	26. ENDORSER'S NAME & TITLE: S.P.S.I.	

175 (9/89)

INVESTIGATION GUIDELINE

REVISED: July 15, 1985

ELECTRIC RANGES AND OVENS

(Except Microwave)

If the incident is believed to involve ignition of cooking materials on an electric cooking surface, fill out the "Data Recording Sheet for Electric Range Food Fires" (Attachment B) and attach to Form 182 (Epidemiologic Investigation Report).

I. Introduction

A. Background Information

About 60,000 residential fires originating in electric ranges or ovens are attended by the fire service annually. In about 70 percent of these fires, some form of cooking material was reported to be the first material to ignite. In view of the advances in microcircuitry, automatic sensing devices, and other electronic technology, it is believed possible to make technical changes in these products which will reduce the number of such fires. However, we have very little information on the circumstances surrounding such fires. We need well-documented reports of the actual accident to determine which approaches are most suitable to reduce the number of such accidents.

Although the resultant ignition of cooking materials may appear obvious in a given incident, one must always be aware and consider the possibility that an underlying technical failure occurred. For example, a thermostat that malfunctioned allowing temperatures in excess of its intended setting, or an element failure which caused arcing and consequently ignition of nearby combustibles.

Since we are continuing to pursue identification of failures of component parts as well, we ask that all residential range/oven fires be investigated. If

INVESTIGATION GUIDELINE

an incident is found to involve ignition of cooking material, also fill out attachment B. to specify details that would otherwise be contained in your narrative. Because this attachment asks for a lot of very specific details on the cooking procedures at the time of the accident, we ask that these investigations be conducted as soon as possible after the accident has occurred since the quality of the available information will decline rapidly with time. As always, there may be other items that turn out to be revelant that we have not mentioned. In view of the technical nature of these products and their installation, please keep in mind the availability of technical support funds to assist you in evaluating these incidents.

This guideline has been reviewed by the range manufacturers and UL and incorporates many of their suggestions. They are very interested in pursuing the causes of these fires, have expressed their interest in learning what we find, and are planning concurrent testing of their own to investigate possible causes.

In order to obtain the earliest possible notification of such fires, we ask that the regional offices use their contacts with local fire departments in all locations where they have the ability to do on-site investigations. Electrical technical support funds may be used to improve electric range and oven investigation.

See additonal technical information (Attachment A)

B. Product Class Description

I. Definitions and General Description

- o Note product information and illustrations in Attachment A.
- o Product can be an electric range, oven, a combination of range/oven, or an installed cooking surface. GAS RANGE/OVEN
- o Unit can also be free-standing, built-in, slide-in, drop-in, or split level. FREE-STANDING

INVESTIGATION GUIDELINE

2. Specific Items of Interest
   - For food fires, fill out Attachment B (questionnaire) in addition to the following main guideline. Cookware Explosion
   - Include diagrams of controls and settings if available.
   - Photograph failed elements, look for manufacturer identification.

C. Headquarters Contact

Linda Smith, EPHA -- 492-6470
Keith Austin, ESES -- 492-6508

> Please note that this is a guideline, not a check list. Any relevant information discovered in the course of the investigation should be included regardless of whether it has been anticipated here.

II. Instructions for Collecting Specific Information

A. Free Text Summary

Describe the sequence of events that led to the accident. Describe the accident including component failure or multiple failures (if known), and subsequent events. SEE TEXT

> For data retrieval from the computer, please make sure the following key words are used in the synopsis as appropriate: food fires, surface element, bake element, thermostat, electric, terminal block, plug, or receptacle.

B. Description of Victim Contact With Product
(Victim/Product Environment Interface)

- Describe accident scenario including any injury or death sustained.

CAKE PAN EXPLODED — NO INJURY

INVESTIGATION GUIDELINE

52 year old female / 22-year old oven,

- Specify victim's experience with, or knowledge of, product, e.g., advise whether instructions or operating manual had been read and understood, common usage. Years of Experience
- Determine if and where aluminum foil was used to catch spills, e.g., in oven floor, under surface burners. NONE

C. Describe Product Characteristic

Gas Oven Range
- Describe dimensions, volts/watts/amps, UL or other certification, conformance with specific standards, other information on rating plate, etc. O'KEEFE & MERRITT GAS Oven / Range
- List manufacturer's name, brand name, and model/serial numbers. SN 366868-00 / 02008 - 380118007

NA
- Specify wattage rating and dimensions of surface heating units (burners).

NA
- Specify method of surface heating unit connection to rest of product wiring. GAS CONNECTION

TIMER + Clock
- Describe any special and/or safety features, automatic timer, clock, rotisserie, self cleaning, automatic tempeature sensor on surface heating units, infinite heat control on surface heating units. etc.

Separate Exhaust fan
- Indicate whether the unit has an exhaust fan or hood, and if it is an integral part of unit or a separate item. Advise if fan or hood was screened and free of grease or other materials. Describe whether venting is appropriate.

22 YEARS OLD
- Specify age of product, date of purchase, condition at time of purchase (new, used, reconditioned, etc.). purchased new

- Show date and method of installation and whether by professional, maintenance man, homeowner, etc. NA

thermostate set on low heat. 300°F
- Indicate product history: previous problems, repairs, modifications or alterations, etc. If repaired, specify data, type, and who did the repairs (factory authorized repair service; maintenance or handy man, homeowner, other). Describe routine maintenance. UNKNOWN MAINTENANCE - CONSUMER STATES PRODUCT IN GOOD WORKING ORDER.

INVESTIGATION GUIDELINE

- Show arrangement of surface heating units and controls. Specify labeling on all controls. Photographs or diagrams are extremely important. See photos –

D. Description of Victim

5'5" 185 lbs CORRECTIVE LENSES

- Indicate victim's age, sex, height, any competence reducing factors (e.g., impaired vision, physical handicaps, medication) experience, knowledge of product, perception of hazard, user attitude, and how victim was clothed, etc. 57 year old female
- Specify activity and location of victim (and persons responsible for cooking) at the time of the accident, and general activities of the household that day which might affect use of the product. STANDING at SINK – washing dishes.

E. Description of Environment

- Describe installed location of product (cleanliness or neatness of use area), specifying items on adjacent countertops. Neat.
- Measure clearance between surface heating units and items above. Indicate if wood cabinets, etc. NA
- Specify if the unit was wired directly into the circuit or a plug-in type, whether it was grounded, and grounding method. Describe who installed the product, what new connections were made, and specify any changes to house wiring. NA
- List the wire size, wire material (copper or aluminum), voltage of branch circuit wiring. NA
- List the size, type, and manufacturer of the overcurrent protection device (fuse or circuit breaker). NA

F. Other

- Specify if the unit was repaired or replaced after the accident. Talk to the repairman to determine cause of failure. NA
- Determine estimated property damage, if any, including fire spread and dollar loss. CAKE AND PAN loss only

INVESTIGATION GUIDELINE

- Indicate if range (surface units or oven) was ever used for room heating. NA

III. Instructions for Photographing and/or Diagramming Accident Scene and Factors Related to the Accident Sequence

Photograph whole product and its environment. Also, photograph failed component parts, including any identification. See Photos

Try to photograph product with utensils and appliances in their positions at the time of the incident. See Photos

IV. Instructions for Obtaining Samples and Documents Related to the Investigation

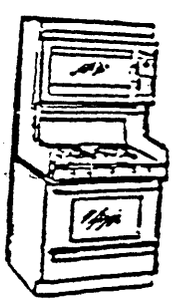
Stipulate whether the fire department was summoned and obtain a copy of the report, if available. Obtain copies of any insurance or repair reports.

Fire Dept telephoned.
No report prepared.

INVESTIGATION GUIDELINE

Built-In

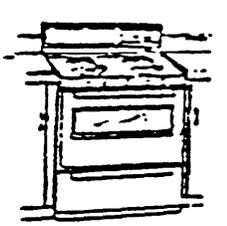
Drop-In



Split-Level

GAS OVEN | RANGE

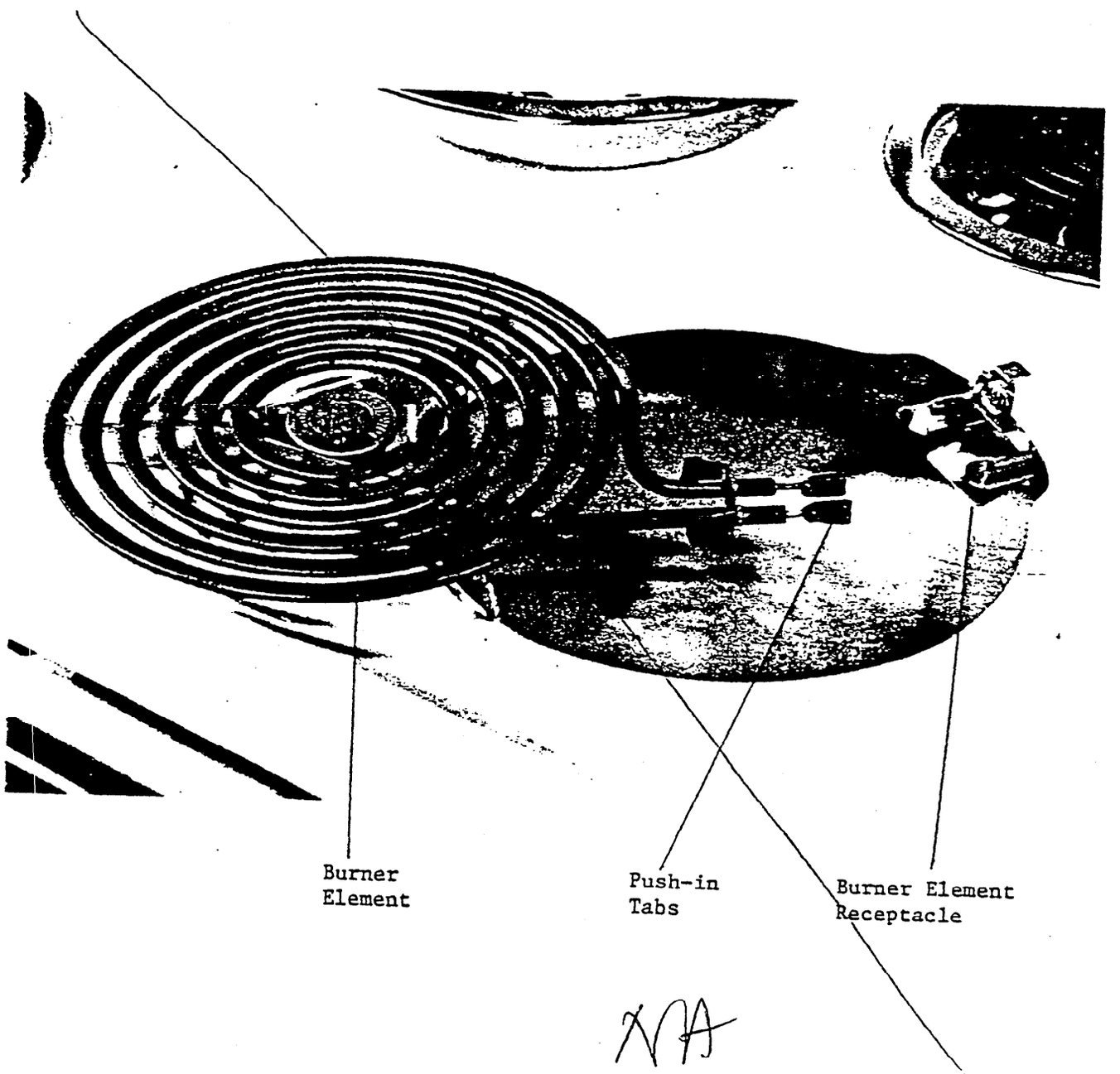
Free-Standing



Slide-In

SINGLE COIL PLUG-IN TYPE SURFACE UNITS

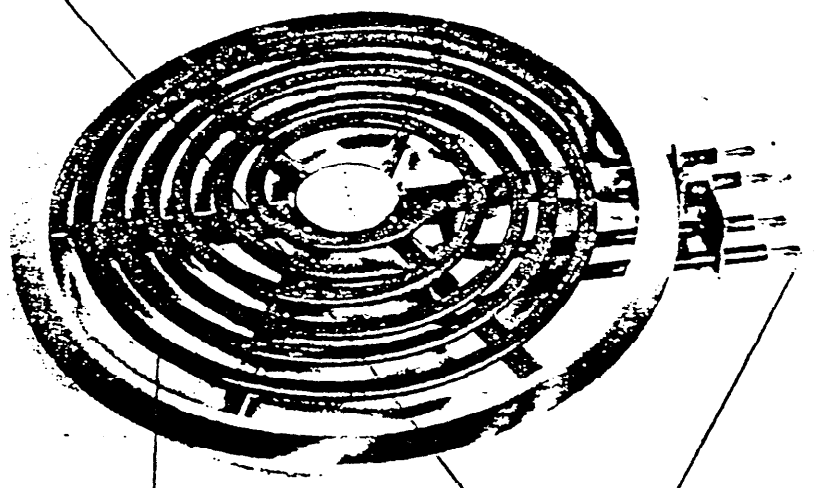
The surface heating unit consists of an inner coil of nichrome wire which is the heater part of the element. The nichrome wire is completely surrounded by an insulating material. An outer metal sheath provides protection for the insulating material, and also serves as the cooking surface. This type may be controlled by an infinite heat control, or by a thermostat. It works by turning on/off for varying periods of time to achieve the desired temperature. It is always 240 volts.



NA

TWO COIL WIRED (SCREW) TYPE SURFACE UNITS

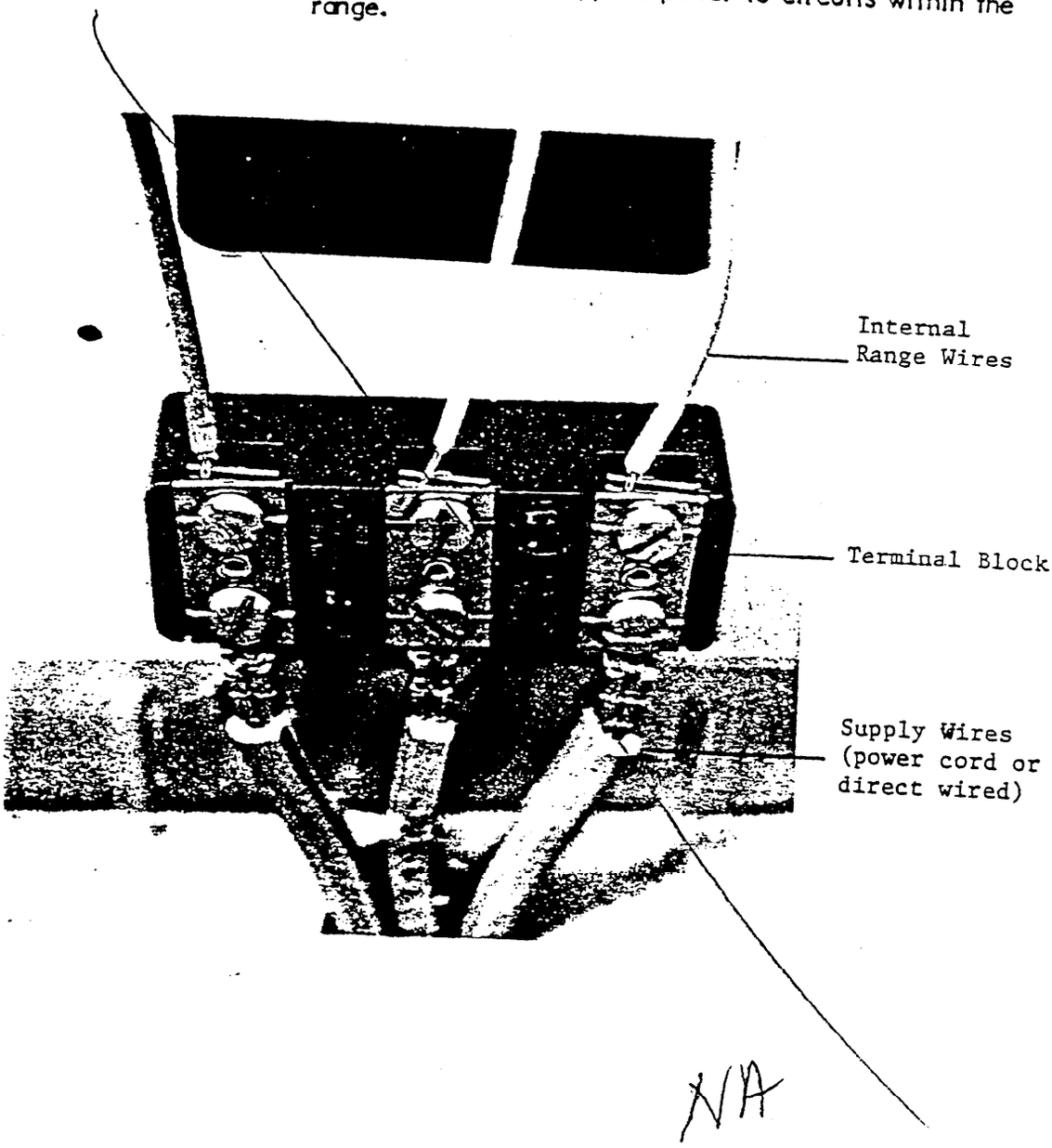
This type of surface heating unit is wired directly to the range rather than being connected to a plug-in receptacle. The range wiring is connected to the three terminals of the element with screws. This type is always controlled by a switch with discrete positions.



NA

TERMINAL BLOCK

The power supply wiring is connected to the range at the power supply terminal block. Internal wiring from the terminal block supplies power to circuits within the range.



NA

INVESTIGATION GUIDELINE

Attachment A

ADDITIONAL TECHNICAL INFORMATION

Heating Element Explosions

In your use of terminology, try to distinguish between arcing of electrically charged components and burning (or flaming) of materials such as wire insulation or other materials. A potential of 120 volts exist between the metal sheath and the heating element conductor, for both surface and oven heating elements. A failure of the magnesium oxide insulation at any point along the element can result in an arc at that point, betweeen the sheath and the heating conductor, which may require the opening of a control switch to extinguish.

Neutral Grounding

If an electric shock has been received, you should consider, and try to determine, whether the range/oven may be providing the path to ground rather than being the failure point. Such situations would be an appropriate use of available technical support funds.

Any perceptible current from the frame of the range or oven indicates an open ground in this system. Because local codes sometimes prohibit use of neutral grounding, a link jumper or its equivalent is provided on these products so that the function of the grounding conductor and the neutral current carrying grounded conductor can be separated. If the link is opened and no separate grounding conductor is provided, the frame will be ungrounded.

Tempered Glass

Tempered glass is designed so that it will always break into small pieces if it breaks at all. Please try to distinguish between situation where the small pieces seem to have fallen near the oven, versus possible explosion where pieces have been expelled long distances. CAKE PAN EXPLODED IN OVEN, FORCED OVEN DOOR OPEN & SCATTERED GLASS throughout kitchen,

INVESTIGATION GUIDELINE

Wiring Failures

NA

Whenever it is believed that failure has occurred at any point in the electrical circuitry, connection, or termination of the product, always try to specify the exact location and function of the wiring involved. For example: a failure of insulation on the wiring to the right surface heating unit control, six inches from the connection to the heating unit.

Task #910122CWE7008
ANCHOR Ovenware
Explosion

Attachment B

DATA RECORDING SHEET FOR ELECTRIC RANGE COOKING MATERIAL FIRES

(To be attached to CPSC Form 182, Epidemiologic Investigation Report)

Task Number #910122CWE7008 Date of Accident 1-17-91

A. PRODUCT

1. Manufacturer O'KEEFE + MERRITT Model UNKNOWN
2. Age 22 YEARS Serial Number 366868-00/02008-38018007
3. Type (Drop in, counter top, etc.) FREE STANDING OVEN/RANGE/GAS
4. Electrical Supply Hook-up GAS
   ____ Plug and Receptacle ____ Terminal Block ____ Wire Nuts
5. Electrical Supply Wires to Range
   ____ Copper ____ Aluminum

CONTROLS

6. Location ✓ Front ____ Back ____ Side
7. Type ____ Pushbutton ✓ Rotary
8. Possible setting (List labeling of each surface heating unit.)
   a. 300°F OVEN Temperature
   b.
   c.
   d.
9. Is there an indicator light for the suface heating units?
   ____ Yes ✓ No

   If yes, are there individual lights for each heating unit?
   ____ Yes ____ No
10. Do any surface heating units have an automatic temperature sensor? If yes, specify which one.
   NO

Task #910122CWE7008
ANCHOR Ovenware
Explosion

SURFACE HEATING UNITS

11. Location of surface heating unit involved in the fire (e.g., right rear)
12. Diameter of involved unit _____
13. Number of rings/coils of unit (center to edge) _____
14. How unit was connected to range
    _____ Screw terminations (specify number on involved unit)
    _____ Push-in tabs _____ Specify number on involved unit

NA

    If tabs, describe shape _____
15. Describe previous repairs: _____
16. Describe repairs after the fire _____

Please note: According to consumer, thermostat stuck at 300°.

B. ACCIDENT

EXPLOSION

17. Size of pan involved in ~~fire~~ (diameter in inches/quarts) 9.5 X 13.5 X 2 in 3 Qt Rectangular
18. Comparison of pan diameter to heating unit diameter (pan smaller, larger, same)
    CAKE PAN WAS PLACED IN OVEN.
19. Pan type and material (e.g., aluminum saucepan) GLASS
20. What food was being cooked? CAKE MIX
21. How full was the pan initially? HALF FULL per INSTRUCTIONS
22. Describe cooking process (sauteing, boiling): BAKE
23. What temperature settings were used? (Start at beginning of cooking time.)
    300° F
24. Type and amount of cooking oil NONE

AT TIME OF ACCIDENT

25. Was the pan covered? NO
26. What was believed to catch fire first? NO FIRE — PAN EXPLODED
27. List all items that burned, or general extent of flame damage. CAKE + PAN splattered oven and kitchen.
28. What was burning when fire was discovered? NONE
29. How long was food cooking prior to fire? 15-20 MINUTES
30. Who was doing the cooking? 52 year OLD female
31. Who discovered the fire? NO FIRE
32. Was anyone in the kitchen when ignition occurred? 52-year OLD female
    Who? female STANDING at SINK when PAN Exploded.
    If not, where were the nearest family members? NA
33. Time of day 5:00 P.M.
34. Was there an exhaust fan in operation? _____
35. Indicate what else was being cooked, and on which burners. NONE

OTHER

NA 36. Was the reflector pan located under the surface heating unit at the time of the fire?
    _____ Yes _____ No

NA 37. Was the reflector pan covered with anything (to keep it clean)?
    _____ Yes _____ No
    What? _____

NA 38. In the past, have you ever turned the wrong heating unit on or off? _____
39. Is there an operable smoke detector in the area? NO
40. Did it go off? NA
41. Describe (or diagram) location of range in the room. What items are near it - - cabinets, window curtain, etc. SEE Photos

General Description: Provide general description, including all other relevant factors and information on the investigation form.

U.S. CONSUMER PRODUCT SAFETY COMMISSION
DALLAS SATELLITE OFFICE
1100 COMMERCE ST., RM. 1C10, DALLAS, TX 75242 - (214) 767-084

FEB 11 1991

Task #910122CWE7008
ANCHOR Ovenware
Explosion

ALASKA
ARIZONA
ARKANSAS
CALIFORNIA
COLORADO
HAWAII
IDAHO
LOUISIANA
MONTANA
NEW MEXICO
NEVADA
OKLAHOMA
OREGON
TEXAS
UTAH
WASHINGTON
WYOMING
PACIFIC ISLANDS

U.S. CONSUMER PRODUCT SAFETY COMMISSION

AUTHORIZATION FOR RELEASE OF NAME

Thank you for assisting us in collecting information on a potential product safety problem. The Consumer Product Safety Commission depends on concerned people to share product safety information with us. We maintain a record of this information and use it to assist us in identifying and resolving product safety problems.

We routinely forward this information to manufacturers and private labelers to inform them of the involvement of their product in an accident situation. We also give the information to others requesting information about specific products. Manufactuers need the individual's name so that they can obtain additional information on the product or accident situation.

Would you please indicate on the bottom of this page whether you will allow us to disclose you name. If you ask that your name remain confidential, we will of course, honor that request. After you have indicated your preference, please sign your name and date the document on the lines provided.

[✓] You are hereby authorized to disclose my name and address with the information collected on this case

[...] My identity is to remain confidential

Dorothy Delk
Signature

1/25/91
Date

APR 2 1991

UNITED STATES GOVERNMENT

Memorandum

U.S. CONSUMER PRODUCT SAFETY COMMISSION
WASHINGTON, D.C. 20207

TO : EPDS

THRU : Claude E. Tolbert
Supervisor, DAL/FOWR

FROM : Joan E. Gregg
Investigator, DAL/FOWR

DATE: March 27, 1991

SUBJECT: ADDENDUM-TASK #910122CWE7008 / 0262/0461

See attached replacement AUTHORIZATION FOR RELEASE OF NAME as requested.

D: EPDS (Joan Bartley)
cc: DSO w/ 910122CWE7008

U.S. CONSUMER PRODUCT SAFETY COMMISSION
DALLAS SATELLITE OFFICE
1100 COMMERCE ST., RM. 1C10, DALLAS, TX 75242 - (214) 767-0841

APR 2 1991

Task #910122CWE7008
ANCHOR Ovenware
Explosion

ALASKA
ARIZONA
ARKANSAS
CALIFORNIA
COLORADO
HAWAII
IDAHO
LOUISIANA
MONTANA
NEW MEXICO
NEVADA
OKLAHOMA
OREGON
TEXAS
UTAH
WASHINGTON
WYOMING
PACIFIC ISLANDS

U.S. CONSUMER PRODUCT SAFETY COMMISSION

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Would you please indicate on the bottom of this page whether you will allow us to disclose you name. If you ask that your name remain confidential, we will of course, honor that request. After you have indicated your preference, please sign your name and date the document on the lines provided.

..... [XX.] You are hereby authorized to disclose my name and address with the information collected on this case

..... [...] My identity is to remain confidential

James W. Dalk
Signature

3-23-91
Date

DALLAS REGIONAL OFFICE
MAR 26 A10:37
RECE

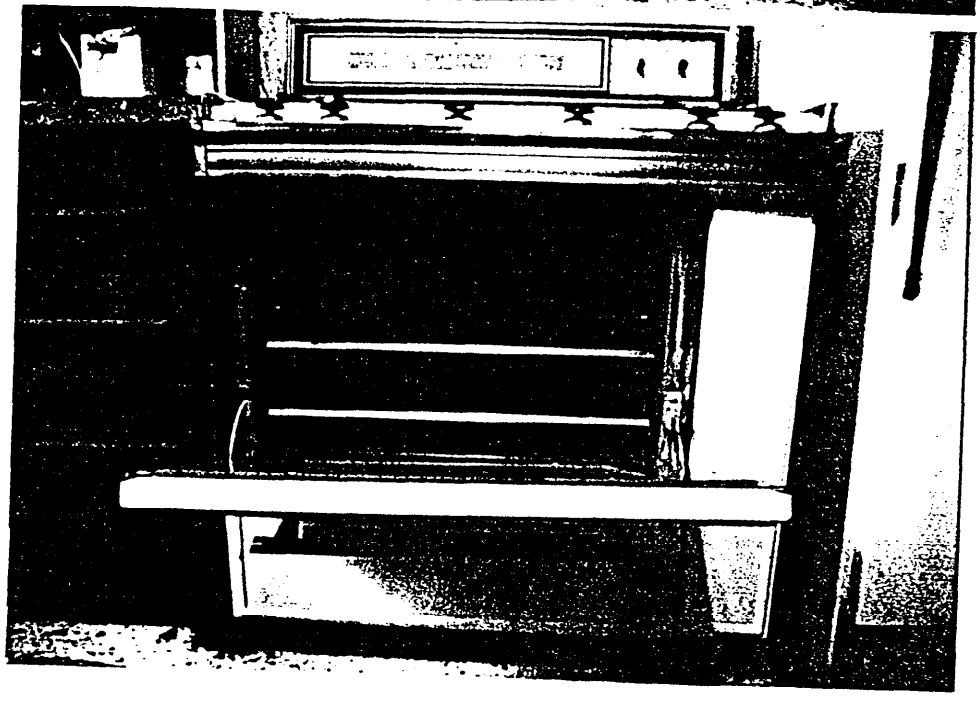
Task #910122CWE7008
ANCHOR Ovenware
Explosion

The above photo reveals the general location of the ovenware explosion. The 57-year old female was standing at a sink to the left at the time of the incident. No injury occurred.

Task #910122CWE7008
ANCHOR Ovenware
Explosion

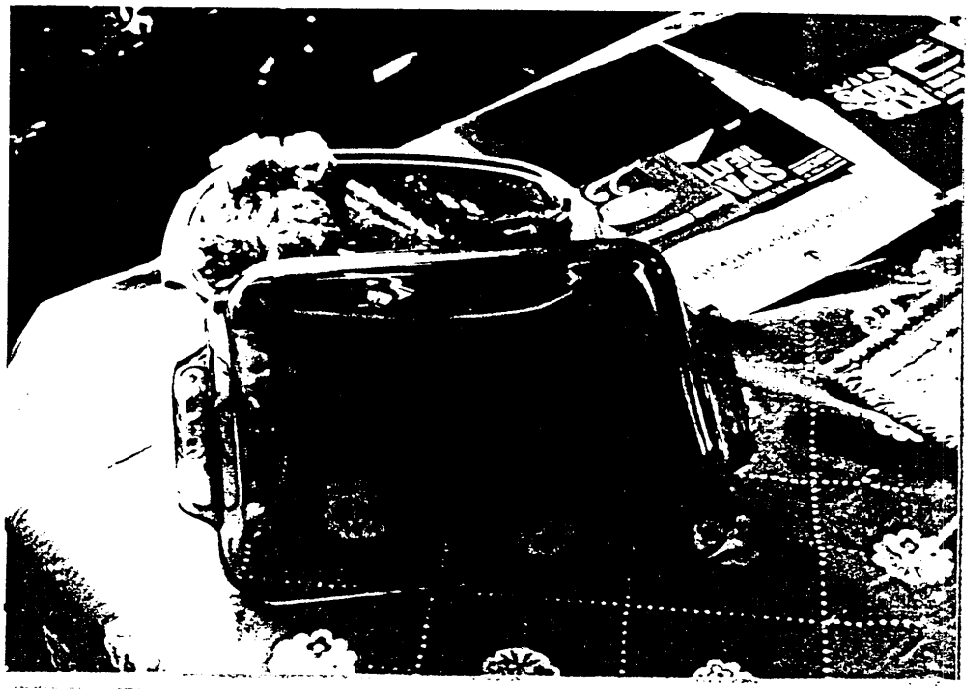
These photos describe the 22-year old gas oven/range. "***O'KEEFE & MERRITT***" brand. The consumers believe the oven to be in good working order.

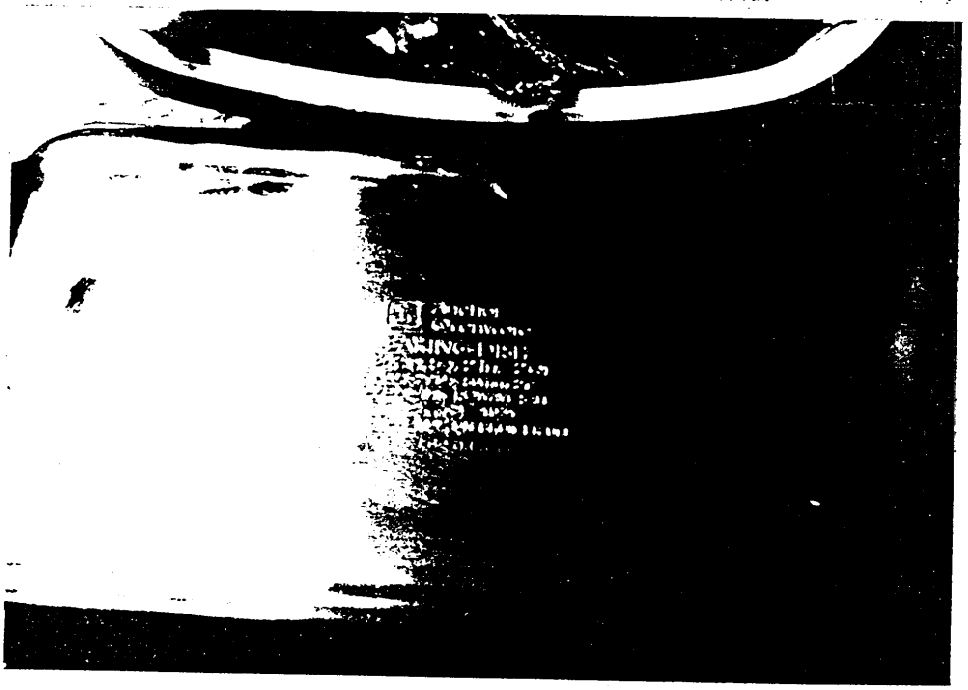
Task #910122CWE7008
ANCHOR Ovenware
Explosion



As mentioned, the cake pan was described as "exploding". According to the consumer, the oven door was forced open and jagged glass was scattered throughout the kitchen. Neither the oven door nor oven appeared to be damaged during examination.

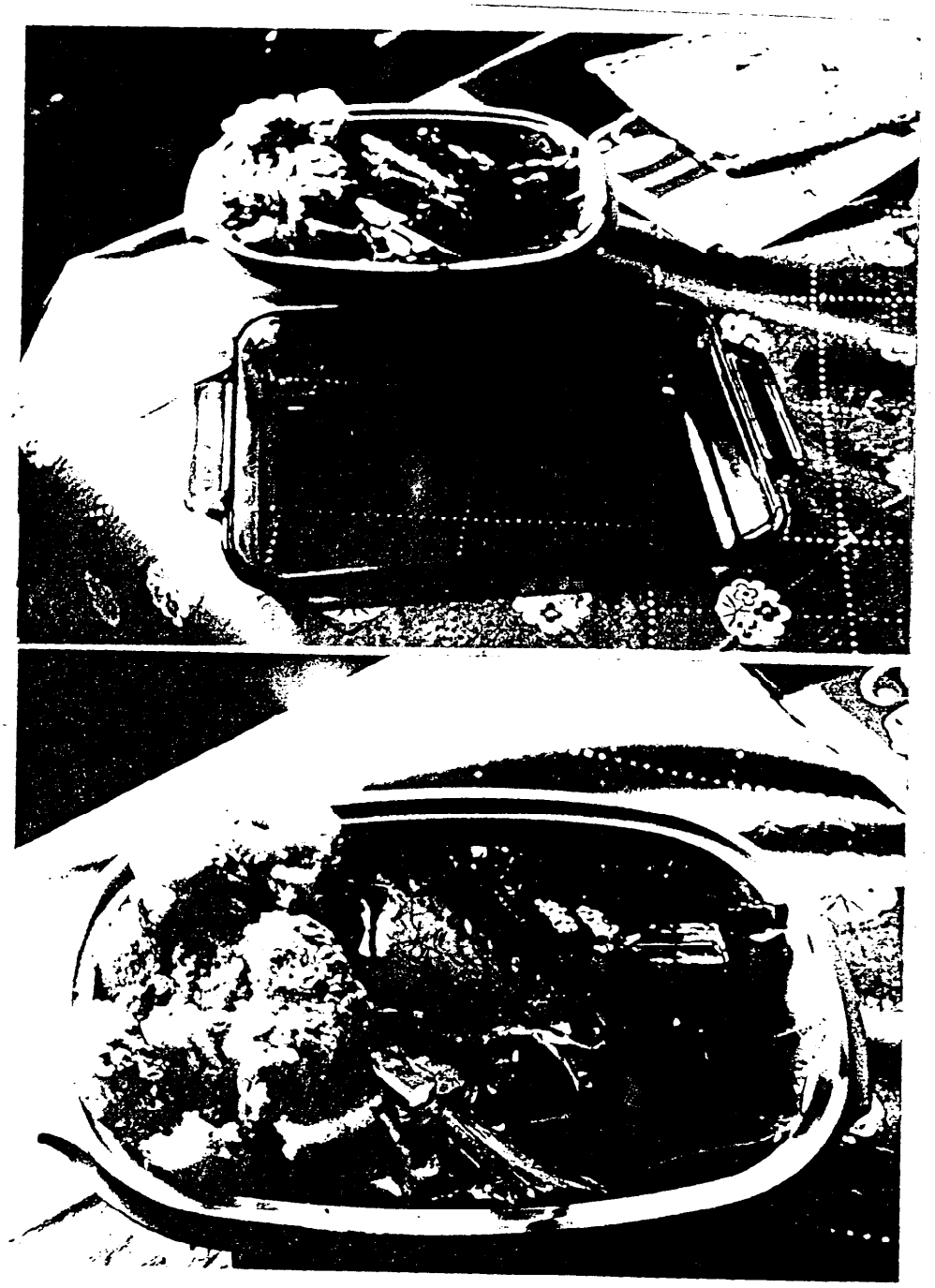
Task #910122CWE7008
ANCHOR Ovenware
Explosion





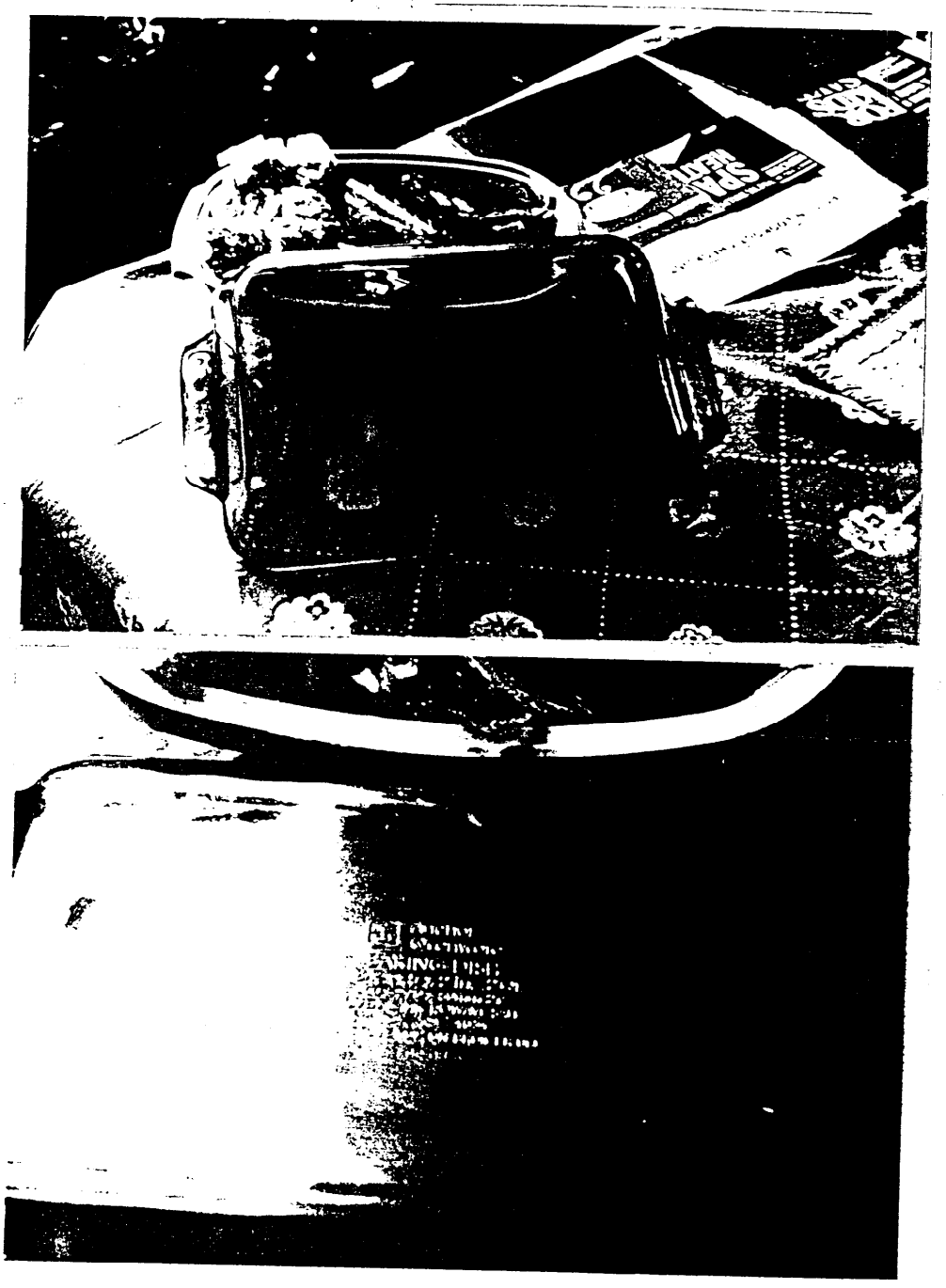
Labeling on the smaller pan is as follows:
Anchor Ovenware BAKING DISH
8 X 11.5 X 2 in 2 Qt
200 X 290 X 50 mm
Oven and Microwave Safe USA 13 1031
No Stovetop or Broiler Use

Task #910122CWE7008
ANCHOR Ovenware
Explosion



These photos reveal the remnants of cake and jagged glass as result of the incident. The pan shown above is the smaller pan of the two piece set involved in the incident.

Task #910122CWE7008
ANCHOR Ovenware
Explosion



Labeling on the smaller pan is as follows:
Anchor Ovenware BAKING DISH
8 X 11.5 X 2 in 2 Qt
200 X 290 X 50 mm
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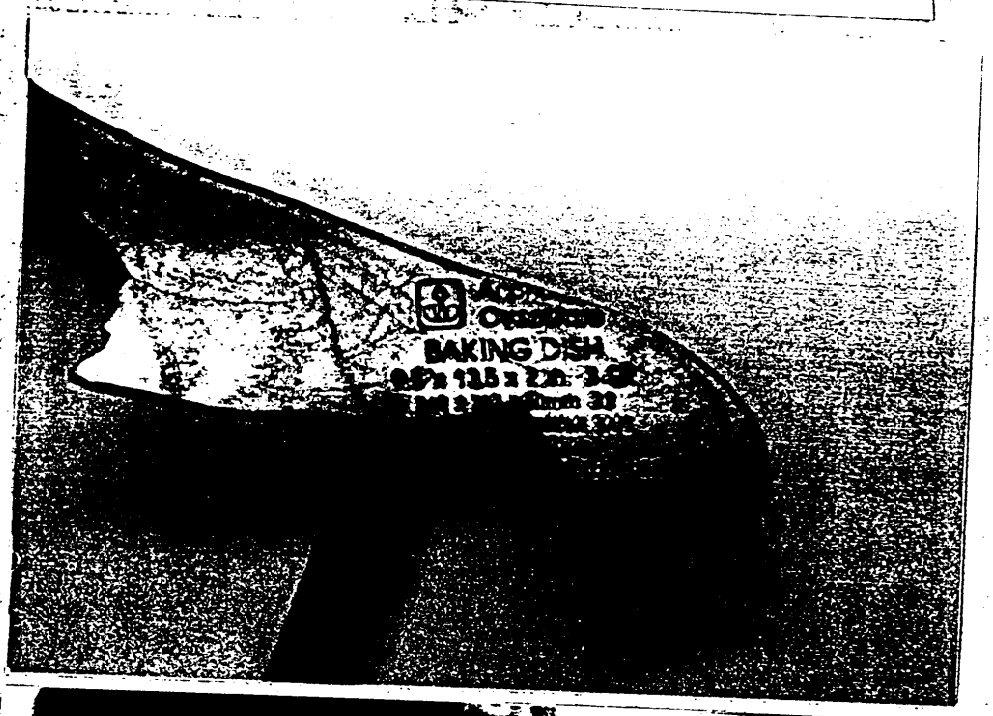
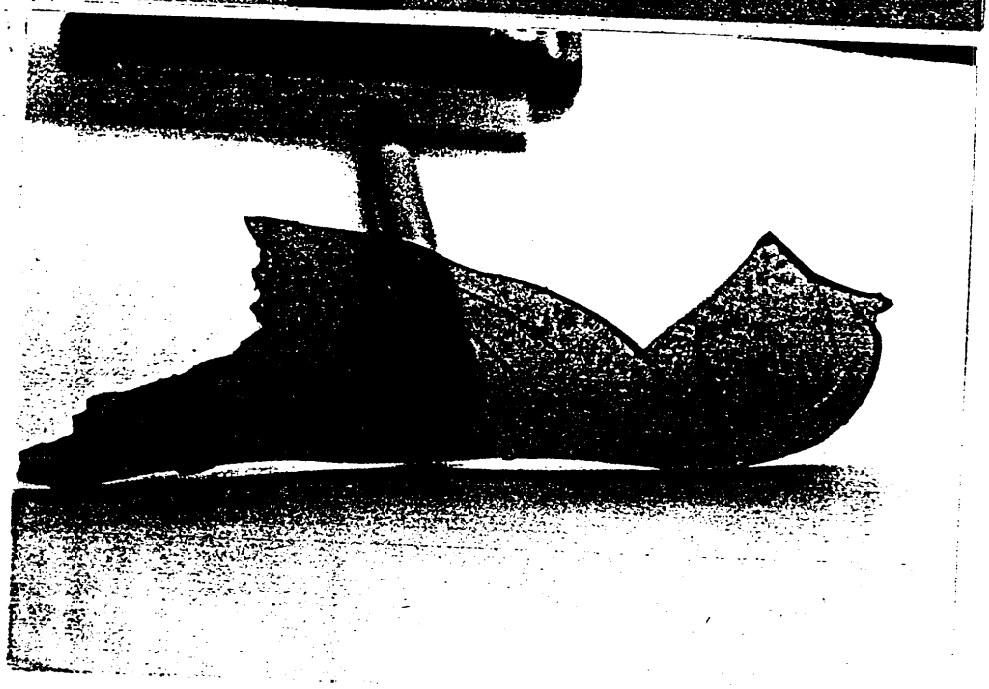
No Stovetop or Broiler Use

Task #910122CWE7008
ANCHOR Ovenware
Explosion





Similar labeling appears on the fragment of the shattered pan. Labeling is part is as follows: "***Anchor Ovenware BAKING DISH***9.5 X 13.5 X 2 in 3 Qt***1040***".