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"VIDEO ARCADE TECHNOLOGY potential for training..."

PENDING PRODUCTION APPROVAL SCRIPT

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30 JANUARY 1981

VIDEO

AUDIO

FADE IN

1. INTERIOR - ARCADE

CLOSE SHOT OF HAND PLACING COIN IN MACHINE. ZOOM OUT TO ESTABLISHING SHOT OF YOUNG PLAYER AND VIDEO GAME.

2. INT - ARCADE

FULL SHOT OF GAME SCREEN SHOWING "Tail Gunner" GAME ACTION.

3. INT - ARCADE

CLOSE UP OF PLAYER'S HAND WORKING GAME CONTROLS.

4. INT - ARCADE

CLOSE UP OF PLAYER'S FACE AS HE CONCENTRATES ON GAME.

5. INT - ARCADE

CLOSE UP OF GAME SYMBOLS FIRING & EXPLODING. GAME ENDS & "Tail Gunner" LOGO SPINS OUT FROM CENTER OF SCREEN TO FILL FRAME. FADE IN UP-TEMPO COMPUTER GENERATED MUSIC. MIX WITH GAME SOUND EFFECTS.

6. INT - ARCADE

MEDIUM CLOSE SHOT OF PLAYER & GAME. ZOOM OUT & PAN TO ESTABLISH CROWDED ARCADE.

7. INT - ARCADE

MEDIUM SHOT OF SEVERAL PLAYERS GATHERED AROUND GAME.

8. INT - ARCADE

FULL SHOT OF GAME SCREEN ACTION. THE GAME IS RUNNING AT INITIAL SLOW PACE WITH MANY TARGET HITS.

DISSOLVE TO

9. INT - ARCADE

FULL SHOT OF GAME SCREEN.
PACE OF ACTION HAS NOW
INCREASED MARKEDLY WITH
FEWER TARGET HITS.

DUCK COMPUTER MUSIC & GAME SFX UNDER FOR OFF-SCREEN NARRATOR:

... Video Arcade Games have become the entertainment phenomenon of the 1980's.

... They have a special attraction to our nation's youth who are highly video oriented based on thousands of hours of individual television viewing.

... The games feature realistic graphics and sound effects which are programed by a computer. They present a continuous challenge and provide immediate visual and audio feedback, so they are self-motivating. The games are also easy to learn...

...yet escalate in complexity. So
they are difficult to defeat and tend
to maintain interest.

10. INT - ARCADE

CAMERA PANS ACROSS SEVERAL VIDEO GAMES KEY IN SEGMENT TITLE:

"Video Arcade Technologypotential for training..."

FADE OUT ON MUSIC

FADE IN

11. INT - ATARI FACILITY (Sunnyvale, CA)

FULL SHOT OF MISSILE COMMAND GAME SCREEN. TILT DOWN TO SHOW PLAYER'S HAND MOVING TRAK BALL.

WIPE TO

12. STOCK FOOTAGE

HAWK MISSILE LAUNCH & TARGET IMPACT.

...Because of the entertainment value, popularity, realism, and computer flexibility Video Arcade Technology appears to offer a unique potential for training
MUSIC OUT NATURAL

The Army Training Support Center has formed a task force to study the potential applications of Video Arcade Technology to support military training.

SEGUE GAME SFX TO HAWK LAUNCH
... Skills acquired through video games are
similar to skills used to perform certain
military tasks.

13. STOCK FOOTAGE

HAWK MISSILE FIRE CONTROL CENTER. SHOW CONTROL PANEL WHICH IS VERY SIMILAR TO "Missile Command's". ... Especially those which are computer associated...

14. STOCK FOOTAGE

TANK GUNNERY TRAINING.

SFX: TANK FIRE

... resource intensive...

15. STOCK FOOTAGE

INFANTRY SQUAD TACTICS

SFX: SMALL ARMS

...and have time and trainer

limitations....

WIPE TO

SEGUE SFX TO COMPUTER GENERATED MUSIC WITH CLASSICAL THEME. (Bach)

16. INT - LIVINGROOM

CLOSE SHOT OF TV SCREEN
SHOWING "BASKETBALL" GAME.
ZOOM OUT TO REVEAL CHILDREN,
TEENS, & ADULTS ENGAGED IN
VIDEO GAME & ELECTRONIC GAME
PLAY.

...A wide variety of video games are now commercially available which appeal to a broad range of age groups and educational backgrounds.

16. CONT'D

CAMERA ZOOMS INTO CLOSE SHOT OF APPLE COMPUTER.

CONTINUE MUSIC

... Many of these games can be played on home computers which attach to ordinary TV sets.

17. INT - LIVINGROOM

OVER-SHOULDER SHOT AS PERSON TURNS PAGES OF NOTEBOOK CONTAINING COMPUTER DISCS. The games are stored on rugged, compact computer discs....

18. INT - LIVINGROOM

MED CLOSE SHOT OF COMPUTER TERMINAL & DRIVE UNIT. PLAYER INSERTS DISC & TURNS COMPUTER ON. CAMERA TILTS UP & FOCUSES ON TV SCREEN AS GAME APPEARS.

19. INT - LIVINGROOM

CLOSE SHOT OF PLAYER'S HAND
MANIPULATING HAND-HELD CONTROL.
ZOOM OUT TO WIDE SHOT, SHOWING
PLAYERS, COMPUTER & TY SET.

SEGUE MUSIC TO GAME SFX

Either hand-held controls or the keyboard can be used to play the game...

20. INT - TV STUDIO

FULL SHOT OF SONY MONITOR SCREEN (hooked to Apple) SHOWING "PONG" GAME

...Video games have been commercially available for 6 years. But in that short time software technology has developed rapidly. Early games, were simple in design and used low resolution graphics...

STAR WIPE TO

21. INT - TV STUDIO

FULL SHOT OF MONITOR SCREEN SHOWING "Periscope" GAME TO INCLUDE EFFICIENCY REPORT. ...But as vendors developed better software, graphics became more realistic and game design became more sophisticate The amount of game-player interaction increased, with the player receiving more feedback - even in printed form.

DIAMOND WIPE TO

22. INT - STUDIO

FULL SHOT OF MONITOR SCREEN SHOWING "Talking Calculator" GAME.

COMPUTER VOICE ANNOUNCES CALCULATION.
...In some more recent games, a
computer voice provides player-

machine interaction and feedback.

CIRCLE WIPE TO

23. INT - STUDIO

FULL SHOT OF MONITOR SCREEN SHOWING "Death Star" GAME.

DISSOLVE TO

24. EXTERIOR

MEDIUM SHOT OF TEENS PLAYING WITH HAND-HELD ELECTRONIC GAME.

25. EXTERIOR

CLOSE SHOT OF GAME.

GAME SFX

... The latest state-of-the-art in game software is the 3-dimensional moving image which adds a realistic perspective to the player's field of view....

SEGUE GAME SFX TO ELECTRONIC ROCK MUSIC.

Another group of games with training potential are the hand-held electronic variety.

GAME SFX FULL

These games present visual displays similar to electronic calculators, and most incorporate some movement and sound effects....

26. EXTERIOR

MED CLOSE SHOT OF TEEN AS HE PLACES GAME IN POCKET.

Though not as dynamic as the video variety, these units are relatively inexpensive, rugged, and compact enough to carry in a pocket.

27. STOCK FOOTAGE

SHOTS OF STUDENTS USING COMPUTERS IN SCHOOL.

Computer learning games are also being used in many public school systems.....

WIPE TO

28. INT - VIDEO ARCADE

ESTAB SHOT OF ARCADE.

There's a lot of training potential in Video Arcade Technology

29. INT - VIDEO ARCADE

CLOSE SHOT OF PLAYER'S FACE.

... What we need is a comprehensive evaluation program to determine...

30. INT - VIDEO ARCADE

EXTREME CLOSE UP OF ACTION
ON SCREEN.

... if the skills acquired in these games transfer to military training

SAW TOOTH WIPE TO

31. INT - ATARI FACILITY

FULL SHOT OF VIDEO SCREEN
OF CONVERTED "Battle Zone"
GAME. SILHOUTTE OF HIND
HELICOPTER APPEARS IN
RETICLE. CURSER SYMBOLS
FOR 25MM CANNON FIRE DESTROYS
HIND. CAMERA ZOOMS OUT TO
ESTAB SHOT OF GAME CONSOLE.

GAME SFX

This unit is a conversion of a commercially available game called "Battle Zone." It features the physical controls of the Infantry Fighting Vehicle weapon system and gunner's station.

32. INT - ATARI FACILITY INT - IFV

TWO WAY SPLIT SCREEN

Game Gunner Control Handles.

IFV Gunner Control Handles.

HANDS GRASP & MANIPULATE BOTH SETS OF HANDLES.

HANDS ACTIVATE FIRING SWITCHES & PALM GRIP STABILIZATION CONTROLS.

... The gunner control handles of the game closely duplicate those of the IFV in appearance...

... feel and gun and turret motion.

They also incorporate the same firing switches and palm grip stabilization controls....

33. INT - ATARI FACILITY INT - IFV

TWO WAY SPLIT SCREEN

Game Screen
showing field
of view through
gunner's sight
with firing &
ranging reticle
& read-outs of
range, weapon, &
ammo selection.

View through IFV gunner's sight with reticle & read-outs.

... The game's video screen presents the same field of view as seen through the IFV gunner's sight. This includes the same firing and ranging reticle plus visual read-outs of indexed ranges, weapon, and ammunition selection.

34. INT - ATARI FACILITY STOCK FOOTAGE

TWO WAY SPLIT SCREEN

Game silhouettes of threat & friendly vehicles appearing at close range. Stock ftg of threat & friendly vehicles. ... The game screen shows silhouettes realistic enough to permit friend or foe identification.

35. INT - ATARI FACILITY STOCK FOOTAGE

TWO WAY SPLIT SCREEN

Game silhouettes of vehicles appear at various ranges Stock ftg of threat vehicles appearing at approx similar ranges. ... These silhouettes can appear at ranges out to three thousand meters ...

36. INT - ATARI FACILITY STOCK FOOTAGE

GAME SFX

TWO WAY SPLIT SCREEN

Game silhouettes of threat & friendly vehicles make movements characteristic of real vehicles.

Stock ftg of paths and take actions characteristic vehicles making characteristic of the equipment they represent.... movements.

INT - ATARI FACILITY 37. INT - IFV

TWO WAY SPLIT SCREEN

Game: hand manipulates controls.

IFV: hand manipulates controls.

... The realistic game controls enable the gunner to select the desired weapon, ammunition, and rate of fire as well as index the target range measured through the game's stadia ranging reticle.

... They can also be programed to follow

38. INT - ATARI FACILITY STOCK FOOTAGE

TWO WAY SPLIT SCREEN

Game silhouettes of Stock ftg threat vehicles firing.

of threat vehicles firing.

... Silhouettes of threat vehicles are programed to fire at realistic times and fire rates.

39. INT - ATARI FACILITY STOCK FOOTAGE

TWO WAY SPLIT SCREEN

Game silhouettes of IFV fires each of its weapons.

Stock ftg of IFV firing weapons.

GAME SFX

...The gunner is able to employ all of
the IFV weapons - coaxial machinegum,
25mm automatic cannon, and TOW missile using realistic trajectories and times
of flight. Sound effects from actual
weapons and vehicles are used.

40. INT - ATARI FACILITY

CLOSE SHOT OF GAME'S SCORING READ-OUT.

ZOOM OUT TO OVER-SHOULDER SHOT OF SOLDIER (in fatigues) USING CAME.

... The game also incorporates a scoring system which provides the soldier with immediate feedback on his performance. As the gunner's skill improves, the game increases in difficulty in order to maintain a high level of challenge.

41. INT - ATARI FACILITY

FULL SHOT OF GAME ACTION ON SCREEN.

... "Battle Zone" is a proven success in the commercial arcade business....

42. INT - ATARI FACILITY

MED CLOSE SHOT OF SOLDIER'S HANDS OPERATING GAME

CONTROLS.

GAME SFX

... The conversion adds training realism...

43. INT - ATARI FACILITY

CLOSE SHOT OF SOLDIER'S FACE.

...while maintaining the game's entertainment attraction ...

44. INT - ATARI FACILITY

FULL SHOT OF SOLDIER & GAME CONSOLE.

...all within the cost of the commercial version. Now let's watch one of several offensive scenarios which are programed into the "Battle Zone" conversion.

45. INT - ATARI FACILITY

FULL SHOT OF GAME SCREEN.
9th OFFENSIVE ENGAGEMENT.

... The IFV moves out and observes an enemy tank moving at approximately

25 kilometers per hour on a crossing course at 1000 meters.

Simultaneously, the gunner observes a SAGGER team in position to fire at 600 meters.

46. INT - ATARI FACILITY

CLOSE SHOT OF GAME CONTROL PANEL. SOLDIER SELECTS COAX MACHINEGUN.

47. INT - ATARI FACILITY

FULL SHOT OF GAME SCREEN.
9th OFFENSIVE ENGAGEMENT
CONTINUED.

48. INT - ATARI FACILITY

CLOSE SHOT OF GAME CONTROL PANEL. SOLDIER SELECTS TOW MISSILE.

OSCILLATING WIPE TO

49. INT - ATARI FACILITY

FULL SHOT OF GAME SCREEN. 4th DEFENSIVE ENGAGEMENT.

GAME SFX

... During the SAGGER team's 5-second aiming time, the gunner must select the appropriate weapon ... range ... aim .. and fire

... Even if the SAGGER is fired first, an accurate burst by the gunner will kill the team and ground the missile.

... Next, the gunner must quickly stop the IFV and engage the tank with his

... The following engagement is one of several defensive scenarios available. The gunner observes two HIND helicopters moving low towards the right. Both disappear behind a hill at 2000 meters.

50. INT - ATARI FACILITY

CLOSE UP OF GAME CONTROL PANEL. GUNNER SELECTS 25MM CANNON.

GAME SFX

... The gunner must quickly select the appropriate weapon system ...

51. INT - ATARI FACILITY

FULL SHOT OF SCREEN.
4th DEFENSIVE ENGAGEMENT
CONTINUES.

... When one HIND pops into view,
the gunner fires Five seconds
later, the second HIND pops up and fires
a SAGGER. The gunner returns fire....
If he misses, his IFV is destroyed.

WIPE TO

52. INT - ATARI FACILITY

ESTAB SHOT OF "Missile Command" GAME CONSOLE.

GAME SFX OUT

... Several other commercial games exist which possess training potential similar to "Battle Zone."

53. INT - ATARI FACILITY

FULL SHOT OF GAME SCREEN.

... The arcade game, "Missile Command," incorporates MIRV's, bombers and "smart" missiles into its game strategy.

54. INT - ATARI FACILITY STOCK FOOTAGE

TWO WAY SPLIT SCREEN

Game control HAWK missile panel control panel

...It also utilizes a control panel which is remarkably similar to the HAWK system.

WIPE TO

55. STOCK FOOTAGE

SHOTS OF INFANTRY SQUAD TRAINING.

SMALL ARMS SFX

... Tactics is another area where existing commercial video games exhibit training potential....

SEGUE TO GAME SFX

56. INT - TV STUDIO

FULL SHOT OF SONY
MONITOR SCREEN SHOWING
"Ambush" GAME.

... For example, the game, "Ambush" could prove useful in training NCO's in squad tactics....

WIPE TO

57 INT - TV STUDIO

FULL SHOT OF SONY MONITOR SCREEN SHOWING "Red Attack" GAME.

... Another commercial game, "Red Attack, is a sophisticated war game simulation at the battalion task force level....

58. STOCK FOOTAGE (Navy)
(OR ATARI FACILITY)

SHOTS OF "Air Combat
Maneuver" GAME,
PREFERABLY WITH NAVY
PERSONNEL AT CONTROLS.

GAME SFX

...Though the Army is yet to perform instructional transfer studies on video games, the Navy has already evaluated several. Their findings show that the game, "Air Combat Maneuver," demonstrates a significant degree of instructional transfer to fighter pilot skills.

59. INT - ATARI FACILITY

MONTAGE OF SHOTS INTERCUTTING SOLDIER USING "Battle Zone" CONVERSION WITH PLAYERS IN COMMERCIAL ARCADE & HOME SETTING.

FADE IN COMPUTER ROCK MUSIC

...Video Arcade Technology demonstrates strong potential for training. Two key factors appear positiv — the games have broad appeal, especially to the young, and off-the-shelf units can be converted for military training with relative ease and at unit costs comparable to commercial versions. The most important factor must now be evaluated — can skills learned through video games transfer to military tasks?

60. INT - ARCADE

FULL SHOT OF GAME SCREEN.
"The End" GRAPHIC SPINS OUT
FROM CENTER OF SCREEN.

FADE OUT

MUSIC OUT