

Embroidery with Smart Threads of some Saudi Folk Proverbs to Adorn Formal Women's Clothing with the Art of one-line Calligraphy and Arabic Calligraphy

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Abstract: The importance of the research lies in the development of designs by merging some of the Saudi proverbs and writing them using one-line art and Arabic calligraphy and embroidering them automatically with smart (luminous) threads on official clothes and employing them to enrich the aesthetic values so that they represent the Saudi identity in official forums, and 10 designs were made Innovative, to add a new vision to women's formal clothing, as it includes Saudi proverbs and drawing with the art of one newly developed calligraphy and Arabic calligraphy using smart (luminous) threads the research followed the descriptive experimental method by combining modernity in design and originality in choosing popular proverbs. The study tools were a questionnaire to evaluate the designs proposed by a number of arbitrators from specialized faculty members at King Khalid University.

The results of the research came true to its hypotheses as follows

- 1- The possibility of integrating drawing with one-line art and writing in Arabic calligraphy some Saudi proverbs.
- 2-The possibility of using smart (luminous) threads to embroider on formal women's clothing.
- 3-The possibility of achieving rhythm and proportion in the executed designs that suit official forums.

Keywords: Smart threads -Folk proverbs - Arabic calligraphy- The art of one-line calligraphy.

استحداث تصميمات من الأمثال الشعبية السعودية بدمج فن الخط الواحد والخط العربي والخيوط المضيئة لإثراء الملابس الرسمية النسائية

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المستخلص: تكمن أهمية البحث في استحداث تصاميم باستخدام فن الخط الواحد المستلهم من الأمثال الشعبي السعودية وكتابتها بالخط العربي و تطريزها بالخيط الذكي (المضيئة) على الملابس الرسمية وتوظيفها لإثراء القيم الجمالية بحيث تمثل الهوية السعودية في المحافل الرسمية، وتم عمل 10 تصاميم مبتكرة من خلال الدمج بين فن الخط الواحد المستوحى من الأمثال الشعبية المتبع فيها أسلوب التطريز الآلي، بهدف إضافة رؤية جديدة ونقله مثيرة بالنسبة للملابس الرسمية لكونها تضم الأمثال الشعبية السعودية وفن الخط الواحد المستحدث باستخدام الخيوط الذكية (المضيئة)، واتباع البحث المنهج الوصفي والتجريبي من خلال الجمع بين الحدائق في التصميم والأصالة في اختيار الأمثال الشعبية، وكانت أدوات الدراسة: استبيان لتقييم التصميمات المقترحة من قبل عدد (8) من المحكمين من أعضاء هيئة التدريس المختصين في جامعة الملك خالد، وعدد (46) من المستهلكين وقد جاءت نتائج البحث محققة لفروضه كالآتي:

1- تأكيد دور الملابس المستوحاة من التراث الشعبي في المحافل الرسمية

2- إمكانية دمج فن الخط الواحد والخط العربي لتصميم تصاميم لتمثيل الأمثال الشعبية السعودية

3- إمكانية تحقيق الإيقاع والتناسب في التصميم بدمج فن الخط الواحد والخط العربي لتصميم التصميم التي تناسب المحافل الرسمية باستخدام الخيوط المضيئة.

الكلمات المفتاحية: الخيوط الذكية-الأمثال الشعبية -فن الخط الواحد-الخط العربي.

Introduction

Fashion design is considered one of the applied plastic arts that affected by all that is new from modern techniques and is increasing in prosperity. (Al-Rifai,2022)

Folk proverbs are one of the most widespread popular literary expressions, and no nation is absent from them. They are a mirror reflecting the feelings of people of different classes and affiliations. It is characterized by its characteristics and advantages, so it is considered the living memory of the people because it is fast in circulation, spread, and transmitted from one generation to another and from one language to another through different times and places, in addition to its conciseness, beauty of pronunciation and density in meanings. The nation and the store of its experiences, as it is one of the means of memorizing experiences and judgment to be transmitted from generation to generation. (Galawi - 2016).

It has been used as a source of inspiration in the art of one-line, which is one of the arts dating back to the early twentieth century, by simplifying the complex reality through one line and applying it using luminous threads, which is one of the smart tissues.

Research problem:-

Possibility of creating designs from popular proverbs using the art of single calligraphy, Arabic calligraphy and luminous threads to enrich women's formal clothes.

Research importance

Representing the Saudi identity in forums in a modern way through formal clothes.-

Using modern arts to immortalize folk proverbs and beautify women's formal clothes.

The use of smart (luminous) threads and their use in enriching formal clothes.

Key words

Photoluminescent Threads: They are materials made and shaped by special methods in the form of threads, non-radioactive, non-toxic that have no harm to the skin and glow in the dark after being exposed to light for more than 10 hours. (Mehran - 2020).-

Popular proverbs: Izzy al-Din Galawi defined the proverb by saying: "It is a brief phrase, pleasant in word and meaning, issued by the common people, to be an honest mirror for them. expressing their civilizational stock, their living reality, their hopes and future aspirations, and it is often linked story that occurred whether we knew the person who said it or not. (Galawi - 2016)

Arabic calligraphy: Arabic calligraphy is the art and design of writing in various languages that use Arabic letters. The art of calligraphy is associated with Arabic decoration it used to decorate mosques and palaces. It was used to sweeten manuscripts and books, especially copies of the Holy Qur'an. (Hiba-2021)

The art of one-line:

It is a drawing made with only one line. It is a way for most artists to simplify the complex world around us. (Rania-2019)

The theoretical side

The proverb known by mentioning its characteristics. It is characterized by brevity in expression, accuracy in meaning and the splendor of the graphic image

Ishaq Ibrahim al-Nizam said: There are four together in the proverb that do not meet in other words: the brevity of the pronunciation, the correctness of the meaning, the good simile, and the quality of the metonymy, which is the end of rhetoric. (Galawi - 2016)

Folk proverbs were represented by one-line art, which is considered a modern art, and the most famous example of this dates back to the early twentieth century. It is a one-line drawing by Pablo Picasso, where he took a complex and realistic example and simplified it in one line.

These drawings can seem relatively simple, but capturing the true essence of the shape in just one line can be quite a challenge.

Implementation by automatic embroidery techniques using luminous threads from a material made in threads and some phosphorous materials added to it. The term (phosphorous) refers to the continuous emission of light from a material without any apparent rise in temperature resulting from exposure to heat, light or electronic discharges. Previous studies: First: Studies that include flashing leads. (Mehran - 2020).

One of the most important materials used in making luminous yarns is polyvinyl, which was used in the study (Carroll, 2000), and polyester fibers also used in several studies, including the study (Wang et al-2012) in which polyester fibers used to make jacquard fabric from yarns. Luminous filaments, as used in a study (.Radavitiene et al-2014) for the production and selection of luminous filaments. Also, polyethylene fibers used as in the study (Gue and I.E, 2013). As for the polyamide fibers.(Yan etal-2016)

Previous studies: First: Studies that include flashing leads:-

1- (Guo and i.e.) (2013) entitled "Post-twilight characteristics and trap level distribution for rare earth chromatic fibers"

and the study dealt with The effect of exposure of the strands to light for different times to determine the necessary period during which the strands must be exposed to light to continue to be luminous in the dark for the longest possible period, and the intensity of luminance was measured within

90 seconds after the light was turned off. The result of the experiments was that the longer the threads were exposed to the light, the more intense their luminance in the dark was in the first seconds only immediately after the light was turned off, then after that, it decreased and reached a certain and constant luminance intensity in all experiments and continued to be luminous in the dark for several hours. Means that the different exposure time Strands of light have no different effect on the length and intensity of the luminescence of the filaments in the dark. (Guo and i.e-2013)

2- (Yan et.al.) (2014) entitled "The effect of inorganic dyes on the luminous properties of colored luminous fibers"

In which the researchers measured the lengths of the intensity of the luminance of the threads in the dark using a nanometer scale. The two studies agreed that the best luminous threads are yellow. Then white, then green, then red, and blue comes in last. (Yan et.al-2014)

3- (Rania Shawqi and Khaira Al-Zahrani) (2019) "using luminous threads as one of the newly developed materials in enriching aesthetic form in the design of clothing accessories. using machine embroidery techniques" The study aimed to aesthetically enriching the clothes with the additions of a new type using method of automatic embroidery (lace art) with luminous threads combined with silk threads with decorative designs . (Rania-2019).

4- (Manahan Farraj and Arwa Muhammad) (2020) entitled "Adapting the characteristics of luminous threads to enrich the women's abaya using machine embroidery techniques." The study dealt with the effectiveness of the use of luminous threads in embroidery still limited and affects the basic material used in making luminous filaments have significant impact on the functional performance of those filaments and their ability to remain luminous for a certain period in the dark after exposure to light.

In addition, one of the most important factors that control the performance of the luminous threads is the color of the thread, or more precisely the material from which the threads dyed in certain colors. Therefore, many studies have studied the effect of adding inorganic pigments on the intensity of the luminosity of the threads and their glow in the dark to reach the best colors that remain glowing for a longer period in the dark with high luminous intensity. (Mehran - 2020).

Second: Studies that included machine embroidery

5- Youssef (2002) "A comparative study of some methods of manual and automatic embroidery on modern textile fabrics and their use in the fields of small industries". The historical development of machine embroidery, as well as the various textile structures.

Accordingly. scientific and technical considerations must be put in place when choosing different embroidery methods, so that they suit the textile composition, and the general aesthetic and functional form. There is a close and influential relationship between embroidery methods and between cloth, embroidery thread, and decoration. The same methods are suitable for other materials, depending on the texture, and type of fabric. (Youssef -2002)

- 6- (Hala Suleiman Al-Sayed Suleiman) (2021) "The effect of using different types of reinforcement materials on the appearance of machine embroidery" The study aimed to Identifying the types of reinforcing materials that used in automatic embroidery, which give the highest appearance of the automatically embroidered materials to reach the highest quality of the automatically embroidered products. The research was limited to three types of raw materials (silk - taffeta - satin) and five types of reinforcement. - heavy) and two types of non-stick (non-woven – cardboard). (Hala-2021)
- 7- (Ghada Abdel-Fattah- Awatef Bahij- Irene Edward) (2022) "Benefiting from Some Embroidery and Crochet Techniques to Enrich the Quality of the Contemporary Women's Jacket". Present design proposals inspired by motifs of Pharaonic art using the method of combining some embroidery and crochet techniques to enrich the aesthetic and functional values of women's jacket designs and to express the Egyptian identity in a contemporary.(Ghada,F,I-2022)

Third: Studies that included Arabic calligraphy and the art of single calligraphy

- 8- (Elham Nafees) (2009) "The Employability of Arabic Calligraphy as an Artistic Characteristic and as an Entrance to Enriching the Aesthetics of Evening Wear for Women". The aesthetics of eveningwear for women using arabic calligraphy, and the study aimed to shed light on the concepts of arabic calligraphy and its transformative ability in achieving overlapping partial vocabulary that can be accommodated in designs of eveningwear for women .(Elham-2009)
- 9- (Hiba Hassan, Doaa and Abu Bakr) (2021) "Calligraphy as one of the most important elements of formation in art and design". The calligraphy as one of the most important elements of artistic formation and its impact on design and art, and it is an essential element in various arts and the extent of its connection with all civilizations over the years. (HIBA, D, A-2021)

General comment on previous studies

Previous studies are similar to the current study on the importance of using luminous threads, calligraphy and machine embroidery in enriching the aesthetic values of women's Clothing in general.

Differed with the current research in creating designs from popular proverbs using art of one calligraphy and merging it with Arabic calligraphy to enrich formal clothes of women.

Application side

The objective of the applied study is to highlight the aesthetic aspect of popular proverbs using one-line art and Arabic calligraphy and embroidering them using smart (luminous) threads, and suggesting designs for formal clothes, and a form was made for the arbitrators to judge the quality of those products.

in addition to using a data collection tool (a questionnaire) directed to some consumers to find out how satisfied they are as a consumer with those designs

Research hypotheses:

- There is a statistically significant relationship between the combination of calligraphy and Arabic calligraphy to represent popular proverbs.
- There is a statistically significant relationship between the suitability of the inspired designs with the formal clothes.
- There is a statistically significant relationship between designs and the use of luminous threads on formal clothes.

Research steps : Field study

The researchers in this study directed two questionnaires

- The first: addressed to the arbitrators.
- The second: directed to the consumer category

Steps to prepare questionnaires

When designing the study questionnaires, followed the following steps.

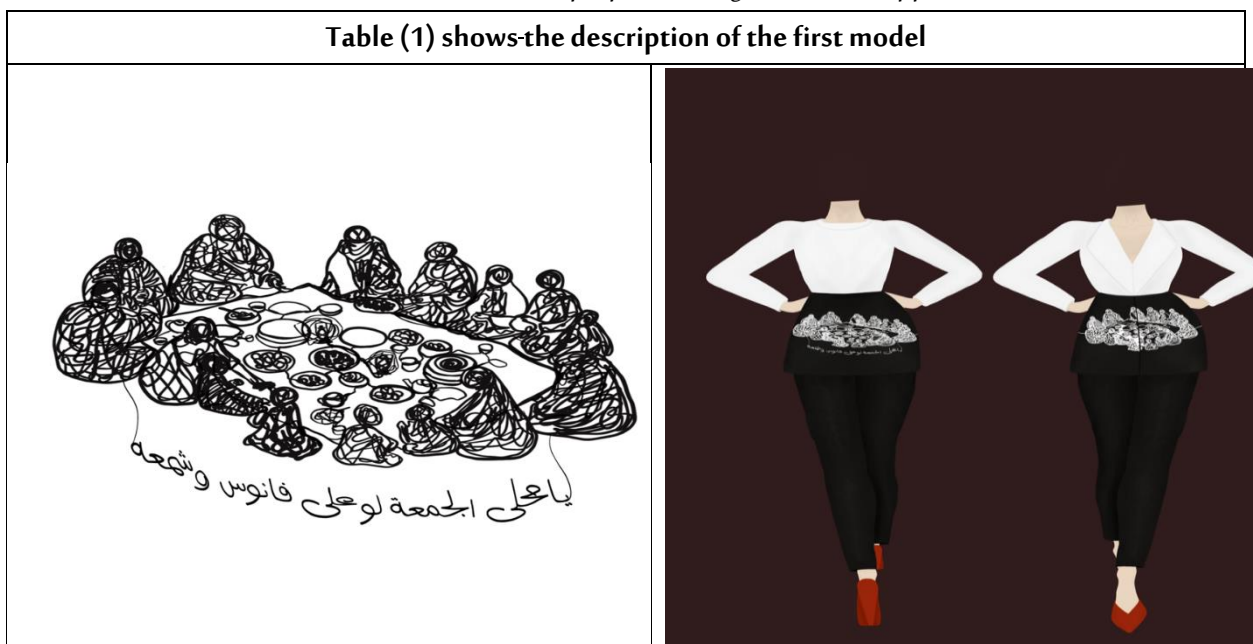
- Initial preparation of the questionnaires and their validity.
- The items for the questionnaires were prepared and then those questionnaires were presented to a number of arbitrators to ensure the suitability of the questionnaire items for the purpose for which the delete. The questionnaires are in their final form

Study results and discussion

The search results are divided into two parts as follows

The first section of the results: includes proposed designs and their applications

Table (1) shows-the description of the first model



Popular proverb and font used	Oh my sweet Friday, if you have a lantern and a candle
The material used	linen
the color	Black and white

Table (2) shows the description of the second model



	
Popular proverb and font used	The jasmine smells delicious if they wrap it in a lid (Kufic script)
The material used	linen
the color	black/off white

Table (3) shows Description of the third model



	
<p>Popular proverb and font used</p>	<p>The Kadi Mayday costume (Kufic script)</p>
<p>The material used</p>	<p>cotton</p>
<p>the color</p>	<p>white</p>

Table (4) shows Description of the fourth model

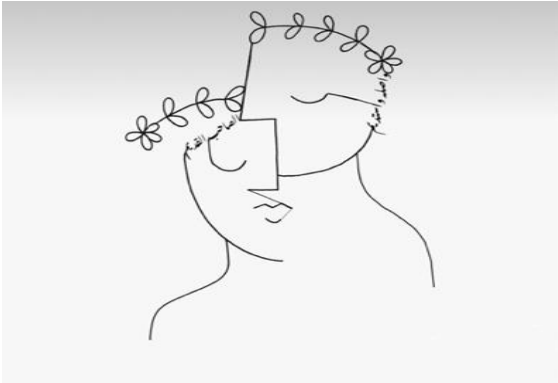

	
<p>Popular proverb and font used</p>	<p>The old Sahib, Waslah and Sudeem (Al Raq'ah Line)</p>
<p>The material used</p>	<p>cotton</p>
<p>the color</p>	<p>white</p>

Table (5) shows Description of the Fifth model



	
<p>Popular proverb and font used</p>	<p>Al-Malih does not need praise (in Persian script)</p>
<p>The material used</p>	<p>cotton</p>
<p>the color</p>	<p>navy blue</p>

Table (6) shows Description of the sixth model



	
<p>Popular proverb and font used</p>	<p>Umm Al-Ayoun Al-Kahla is sweeter (in Persian calligraphy)</p>
<p>The material used</p>	<p>cotton</p>
<p>the color</p>	<p>white</p>



Table (7) shows Description of the seventh model	
	
Popular proverb and font used	He came to conquer all (Dewan Thuluth script)
The material used	cotton
the color	very light brown



Table (8) shows Description of the Eighth model	
	
Popular proverb and font used	There is no one with your beauty and grooming and happiness walking in front of you (Diwan Thuluth script)
The material used	insignificant
the color	black





Table (9) shows Description of the ninth model	
	
<p>Popular proverb and font used</p>	<p>The mind is an adornment for every sobriety (in Moroccan Kufic script)</p>
<p>The material used</p>	<p>cotton</p>
<p>the color</p>	<p>black</p>

Table (10) shows Description of the tenth model	
	
<p>Popular proverb and font used</p>	<p>Similar to Al-Bar (Kufic script)</p>
<p>The material used</p>	<p>cotton</p>
<p>the color</p>	<p>white and yellow</p>

The second part of the results

Through the results of the questionnaire, analyzed the responses to the questionnaire made a statistical table showing the percentages. The number of responses from the opinions of specialists and consumers was (54) responding to the questions of the evaluation form of the proposed designs as follows.

Table (11) the first axis: the structural design of the pieces1-1

The first axis: the structural design of the pieces		judging levels	Design 1	Design 2	Design3	Design 4	Design 5	Design6	Design 7	Design 8	Design 9	Design 10
1-1Colors match the piece	I totally agree	72.2%	70.4%	81.5%	66.7%	75.9%	66.7%	61.1%	61.1%	68.5%	70.4%	
	accept	20.4%	20.4%	16.7%	20.4%	16.7%	22.2%	24.1%	24.1%	20.4%	20.4%	
	I agree somewhat	7.4%	9.3%	1.8%	9.3%	4.9%	11.1%	9.3%	9.3%	7.4%	6.1%	
	disagree	0%	0%	0%	3.6%	2.5%	0%	5.5%	5.5%	3.7%	3.1%	
Ranking according to judging scores			3	4	1	10	2	9	8	7	6	6

Table (11) shows the results of the questionnaire for the first axis, for the first item that the third design came in first place, followed by the fifth design, the end of the arrangement the fourth design

.Table (12) the first axis1-2Achieving proportion and proportion in the piece

The first axis: the structural design of the pieces		judging levels	Design 1	Desig n2	Design3	Design 4	Design 5	Design6	Design 7	Design 8	Design 9	Design 10
1-2Achieving proportion and proportion in the piece	I totally agree	70.4%	66.7%	75.9%	61.1%	68.5%	64.8%	59.3%	75.4%	66.7%	68.5%	
	accept	22.2%	25.9%	20.4%	27.8%	20%	24.1%	20.4%	25.9%	20.4%	25.9%	
	I agree somewhat	7.4%	4.9%	3.7%	9.3%	7.7%	11.1	16.7%	13%	8.6%	3.8%	
	disagree	0	2.5%	0%	1.8%	3.8%	0%	3.6%	3.7%	4.3%	1.8%	
Ranking according to judging scores			3	6	1	9	5	8	10	2	7	4

Table (12) shows the results of the questionnaire for the first axis, the second item that the third design came in first placeand the seventh design came at the end.

Table (13) the first axis: 1-3 Balance the widget

The first axis: the structural design of the pieces											
judging levels	Design 1	Design 2	Design3	Design 4	Design 5	Design6	Design 7	Design 8	Design 9	Design 10	
1-3 Balance the widget	64.8%	63%	75.9%	61.1%	68.5%	64.8%	63%	59.3%	64.8%	63%	59.3%
	27.8%	24.1%	16.7%	25.9%	22.2%	22.2%	22.2%	22.2%	20.4%	29.6%	27.8%
	7.4%	11.1%	7.4%	11.1%	6.2%	13%	13%	14.8%	7.4%	5.6%	8.66%
	0%	1.8%	0%	1.9%	3.1%	0%	1.8%	3.7%	7.4%	2.4%	4.3%
Ranking according to judging scores		3	7	1	9	2	4	8	10	5	6

Table (13) shows the results of the questionnaire for the first axis, for the third item that the third design came in first place, followed by the fifth design, and the eighth design came at the end of the arrangement.

The first axis 1-4 did the piece achieve the aesthetic vision and clarify the message? 14)) Table

The first axis: the structural design of the pieces											
judging levels	Design 1	Design 2	Design3	Design 4	Design 5	Design6	Design 7	Design 8	Design 9	Design 10	
1-4 Did the piece achieve the aesthetic vision and clarify the message?	I totally agree	66.7%	61.1%	68.5%	55.6%	64.8%	61.1%	61.1%	57.4%	61.1%	59.3%
	accept	24.1%	29.6%	24.1%	29.6%	24.1%	24.1%	20.4%	25.9%	29.6%	27.8%
	I agree somewhat	6.1%	6.2%	7.4%	11.1%	9.3%	14.8%	14.8%	14.8%	6.2%	8.66%
	disagree	3.1%	3.1%	0%	3.7%	1.8%	0%	3.7%	1.9%	3.1%	4.3%
Ranking according to judging scores		2	4	1	9	3	5	6	8	4	7

Table (14) shows the results of the questionnaire for the first axis, fourth item that the third design came in first place, and the fourth design came at the end of the arrangement. So the results of the questionnaire for the first axis showed (Tables (11,12,13,14)) that the third design came in first place, followed by the fifth design, and came at the end of the fourth design, and thus the second hypothesis was achieved where there is a statistically significant relationship between Inspired designs go well with formal attire. In addition, the third hypothesis: There is a statistically significant relationship between designs and the use of luminous threads on formal clothes.

The second axis: the decorative design of the embroidered designs2-1 Table (15)

The second axis: the decorative design of the embroidered designs											
	judging levels	Design 1	Design 2	Design 3	Design 4	Design 5	Design 6	Design 7	Design 8	Design 9	Design 10
2-1 Has proportion been achieved in the design	I totally agree	63%	46.8%	72.2%	59.3%	72.2%	63%	63%	64.8%	61.1%	66.7%
	accept	27.8	24.1%	20.4%	27.8%	18.5%	25.9%	22.2%	18.5%	29.7%	25.9%
	I agree somewhat	7.2%	19.4%	7.4%	11.1%	6.2%	9.3%	13%	13%	6.2%	4.4%
	disagree	2%	9.7%	0%	1.8%	3.1%	1.8	1.8%	3.9%	3%	3%
Ranking according to judging scores		5	10	1	9	2	6	7	4	8	3

Table (15) shows the results of the questionnaire for the second axis, for the first item that the third design came in first place, followed by the fifth design, and at the end of the order came the second design.

2-2 Achieving innovation in the presentation of proverbs Table (16)

The second axis: the decorative design of the embroidered designs											
	judging levels	Design 1	Design 2	Design 3	Design 4	Design 5	Design 6	Design 7	Design 8	Design 9	Design 10
2-2 Achieving innovation in the presentation of proverbs	I totally agree	68.5%	63%	70.4	63%	68.5%	63%	59.3	61.1%	57.4%	63%
	accept	22.2%	24.1%	20.4%	22.2%	18.5%	16.7%	22.2	18.5%	27.8%	25.9%
	I agree somewhat	6.2%	9.3%	9.3%	11.1%	11.1%	18.5%	16.7%	18.5%	9.3%	9.3%
	disagree	3.1%	3.6%	0%	3.7%	1.9%	1.8%	1.8%	1.9%	5.5%	98.2%
Ranking according to judging scores		2	5	1	6	3	7	9	8	10	4

Table (16) shows the results of the questionnaire for the second axis, the third design came in first place, and the ninth design came at the end of the arrangement.

2-3 Achieving compatibility between designs and luminous strands Table (17)

The second axis: the decorative design of the embroidered designs											
	judging levels	Design 1	Design 2	Design3	Design 4	Design 5	Design6	Design 7	Design 8	Design9	Design 10
2-3 Achieving compatibility between designs and luminous strands	I totally agree	70.4%	66.7%	74.1%	59.3%	63%	59.3%	59.3%	64.8%	63%	64.8%
	accept	20.4%	18.5%	20.4%	29.6%	24.1%	25.9%	24.1%	16.7%	22.2%	24.1%
	I agree somewhat	9.3%	13%	5.5%	7.4%	11.1%	14.8%	13%	16.7%	9.3%	9.3%
	disagree	0%	1.8%	0%	3.7%	1.8%	0%	3.6%	1.8%	5.5%	1.8%
Ranking according to judging scores		2	3	1	8	6	9	10	5	7	4

Table (17) shows the results of the questionnaire for the second axis, the third design came in first place, followed by the first design, and the seventh design came at the end of the arrangement.

So the results of the questionnaire for the second axis (Tables (15,16,17) showed that the third design came in first place, followed by the first design, and the ninth design came at the end of the order, and thus the hypothesis was achieved.

The third, where there is a statistically significant relationship between designs and the use of luminous threads on formal clothes, and the first hypothesis, there is a statistically significant relationship between the combination the art of single calligraphy and Arabic calligraphy to represent popular proverbs.

3-1The designs fit the official forums the third axis: job performance Table (18)

The third axis: job performance											
	judging levels	Design 1	Design 2	Design3	Design 4	Design 5	Design6	Design 7	Design 8	Design9	Design 10
3-1The designs fit the official forums	I totally agree	63%	64.8%	72.2%	61.1%	61.1%	57.4%	63%	55.6%	64.8%	66.7%
	accept	22.2%	20.4%	22.2%	22.2%	24.1%	22.2%	20.4%	16.7%	13%	20.4%
	I agree somewhat	11.1%	11.1%	1.8%	14.8%	13%	20.4%	11.1%	20.4%	18%	9.3%
	disagree	3.7%	4.5%	3.8%	1.9%	1.8%	0%	5.5%	7.4%	4.2%	3.6%
Ranking according to judging scores		5	3	1	8	7	9	6	10	4	2

Table (18) shows the results of the questionnaire for the third axis, achieving the desired functionality from the designs, as it came in the first place and the end of the arrangement the eighth design.

3-2 Designs match fashion trends Table (19)

The third axis: job performance	judging levels	Design 1	Desig n2	Design3	Design 4	Design 5	Design6	Design 7	Design 8	Design9	Design 10
3-2 Designs match fashion trends	I totally agree	66.7%	68.5%	68.5%	59.3%	68.5%	57.4%	67.5%	64.8%	61.1%	61.1%
	accept	24.1	22.2%	29.6%	25.9%	25.9%	25.9%	212%	22.2%	22.2%	27.8%
	I agree somewhat	9.3%	16.7%	1.9%	13%	5.6%	16.7%	15.7%	13%	14.8%	7.4%
	disagree	0%	3.1%	0%	1.8%	0%	0%	3.2%	0	1.9%	3.7%
Ranking according to judging scores		5	3	1	9	2	10	4	6	8	7

Table (19) shows the results of the questionnaire for the third axis, achieving the desired functionality of the designs and compatibility of designs with contemporary fashion while preserving the heritage, where the third design came first, followed by the fifth design, and the sixth design came at the end of the arrangement.

Therefore, the results of the questionnaire for the third axis clarified Tables (18, 19)..

Through the questionnaire, the results came true for the research hypotheses as follows

- 1- Confirming the role of folklore-inspired clothing in official forums
- 2- The possibility of merging the art of single calligraphy and Arabic calligraphy to design designs to represent Saudi proverbs.
- 3- The possibility of using luminous threads to embroider on formal clothes
- 4- The possibility of achieving rhythm and proportion in designs by integrating the art of single calligraphy and arabic calligraphy to design designs that suit official forums.

Recommendations:- the research recommends the following points

- 1- Constant quest by designers to enrich designs with popular culture
- 2- Urging the use of luminous threads in embroidery, whether manual or automatic, because of their impact on highlighting the design.

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The references

- 1- **Al-Rifai, Nashat, Al-Naasan, Al-Farmawi, Al-Fiqi:** "Developing designs inspired by the integration of arabesque motifs with the elements of the natural environment and using them to enrich women's clothing with machine embroidery." Menoufia University - Journal of Home Economics-2022.
- 2- **Galawi Azzedine:** Algerian Folk Proverbs. Setif: Directorate of Culture -2016.

- 3- **Khaira Muhammad Hassan Jaafar, Awad Awadah Al-Salami Al-Zahrani:** "Studying the decorations of the Andalusian style and employing them in enriching women's clothing with machine embroidery" - Journal of Specific Education 2011.
- 4- **Rania Shawky Muhammad and Khairiya Awad Al-Zahrani:** "Using luminous threads as one of the newly developed materials to enrich the aesthetic form in designing clothing accessories using machine embroidery techniques" Journal of Arts and Applied Sciences - Damietta University - Faculty of Applied Arts-2019
- 5- **Ghada Abdel-Fattah, Awatef Bahij, Irene Edwar:** "Benefiting from some embroidery and crochet techniques to enrich the quality of the contemporary women's jacket", El Mina University - Faculty of Specific Education - Journal of Research in Specific Education 2022.
- 6- **Ghania Aabi:** "Social Connotations in Folk Proverbs, Awlad Uday Qabal Region - A Model." Mohamed Boudiaf University in M'sila 2016.
- 7- **Mirhan Farraj, Arwa Yahya:** "Adapting the characteristics of luminous threads to enrich the women's abaya using machine embroidery techniques" - Emirates College for Educational Sciences - Journal of Arts, Humanities and Social Sciences – 2020
- 8- **Maha Ahmed Abdel Aziz** "With a comparative study of some methods of manual and automatic embroidery on modern textile fabrics and their use in the fields of small industries" -College of Home Economics - Helwan University 2020.
- 9- **Hiba Hassan, Doaa and Abu Bakr:** (2021) "Calligraphy as one of the most important elements of formation in art and design-2021AD
- 10- **Yanhong, Zhu, Y. Guo, X., and Ge, M Yan.** (2014). - The effects of inorganic pigments on the luminescent properties of colored luminous fiber. Textile Research Journal: 84(8). 758-792 .
- 11- **X., and Ge, M. Guo.** (2013). The afterglow characteristics and trap level distribution of chromatic rare-earth luminous fiber. Textile Research Journal

Supplement

التصميم البنائي للقطع				المحور الأول
لا أوافق	أوافق بدرجة متوسطة	أوافق	أوافق بشدة	التقييم البنود
				تناسق الالوان
				تم تحقيق النسبة والتناسب في القطعة
				تم تحقيق التوازن في تصميم القطعة
				حققت القطع رؤية جمالية ووضحت الرسالة

التصميم الزخرفي لتصاميم المطرزة :				المحور الثاني
لا أوافق	أوافق بدرجة متوسطة	أوافق	أوافق بشدة	التقييم البنود
				تم تحقيق الإيقاع في التصميم
				تم تحقيق الابتكار في عرض الأمثال
				تم تحقيق التوافق بين التصاميم والخيوط المضيئة
الأداء الوظيفي				المحور الثالث
لا أوافق	أوافق بدرجة متوسطة	أوافق	أوافق بشدة	التقييم البنود
				تناسب التصاميم المحافل الرسمية
				توافق التصاميم اتجاهات الموضة