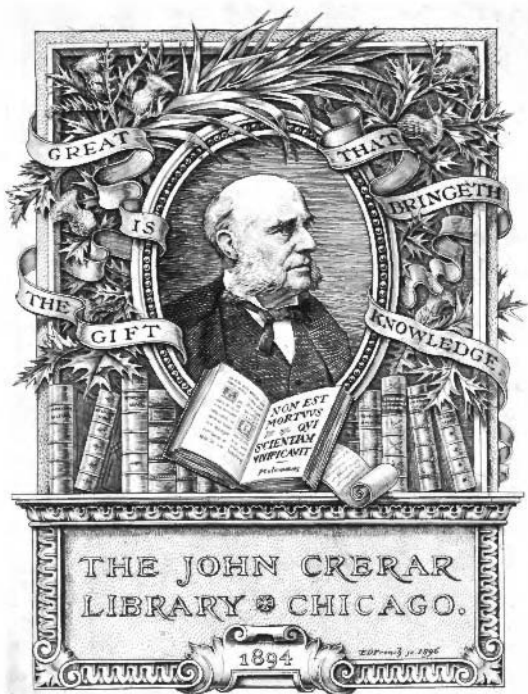


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NATAL STONES

SENTIMENT AND SUPERSTITION

· CONNECTED WITH

PRECIOUS STONES

BY

GEORGE FREDERICK KUNZ



TIFFANY & Co.

Jewelers and Silversmiths
Union Square, New York
L. C.

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NATAL STONES.

The Jewish superstitions regarding to gems were probably derived from earlier races and adopted by the Arabian philosophers in their works, by which they became known throughout Europe. The influence of gems was believed in until early in the 17th century, and in regard to some gems up even to the present century.

The origin of the use of a special gem for each month was probably founded on the original breastplate of the High Priest, which contained twelve gems, one for each of the tribes of Israel. The original breastplate was a span long and a span high: 1 span=8 inches. The arrangement by months probably came in during the 15th and 16th centuries, although it is attributed to the Jews, Romans, and early Arabians.

AARON'S BREASTPLATE.

3 Emerald	2 Peridot	1 Carnelian
6 Onyx	5 Lapis-lazuli	4 Ruby
9 Quartz	8 Agate	7 Sapphire
12 Jasper	11 Beryl	10 Topaz

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THE FOLLOWING LISTS INCLUDE THE
BEEN USED BY DIFFERENT

	Jews.	Romans.	635 A. D. Isidorus, Bishop of Seville.	Arabians.
Jan.	Garnet.	Garnet.	Hyacinth.	Garnet.
Feb.	Amethyst.	Amethyst.	Amethyst.	Amethyst.
Mar.	Jasper.	Bloodstone.	Jasper.	Bloodstone.
April.	Sapphire.	Sapphire.	Sapphire.	Sapphire.
May.	Chalcedony, Carnelian or Agate.	Agate.	Agate.	Emerald.
June.	Emerald.	Emerald.	Emerald.	Agate or Chalcedony.
July.	Onyx.	Onyx.	Onyx.	Carnelian.
Aug.	Carnelian.	Carnelian.	Carnelian.	Sardonyx.
Sept.	Chrysolite.	Sardonyx.	Chrysolite.	Chrysolite.
Oct.	Aquamarine or Beryl.	Aquamarine or Beryl.	Aquamarine or Beryl.	Aquamarine or Beryl.
Nov.	Topaz.	Topaz.	Topaz.	Topaz.
Dec.	Ruby.	Ruby.	Ruby.	Ruby.

MORE IMPORTANT ONES THAT HAVE
NATIONS AT VARIOUS TIMES:

Poles.	Russians.	Italians.	18th and 19th Centuries.
Garnet.	Garnet or Hyacinth.	Jacinth or Garnet.	Garnet.
Amethyst.	Amethyst.	Amethyst.	Amethyst or Pearl.
Bloodstone.	Jasper.	Jasper.	Jasper, Hyacinth or Amethyst.
Diamond.	Sapphire.	Sapphire.	Sapphire or Diamond.
Emerald.	Emerald.	Agate.	Agate.
Agate or Chalcedony.	Agate or Chalcedony.	Emerald.	Emerald, Cat's-eye, Turquoise.
Ruby.	Ruby and Sardonyx.	Onyx.	Onyx.
Sardonyx.	Alexandrite.	Carnelian.	Sardonyx, Moonstone, Topaz.
Sardonyx.	Chrysolite.	Chrysolite.	Chrysolite or Sapphire and Diamond.
Aquamarine or Beryl.	Beryl.	Beryl.	Opal or Sapphire.
Topaz.	Topaz.	Topaz.	Topaz or Pearl.
Turquoise.	Turquoise, Chrysoprase.	Ruby.	Ruby, Bloodstone.

SENTIMENT OF GEMS MENTIONED IN THE FOREGOING LIST.

<i>Agate</i>	Health, Wealth and Longevity.
<i>Alexandrite</i>	Undying Devotion.
<i>Amethyst</i>	Deep Love. Prevents Intoxication.
<i>Beryl</i>	Happiness and Everlasting Youth.
<i>Bloodstone</i>	Courage and Wisdom.
<i>Carnelian</i>	Prevents Misfortune.
<i>Cat's-eye</i>	Warns of Dangers and Troubles.
<i>Chalcedony</i>	Disperses Melancholy.
<i>Chrysolite</i>	Gladdens the Heart.
<i>Chrysoprase</i>	Eloquence.
<i>Diamond</i>	Purity. Preserves Peace. Prevents Storms.
<i>Emerald</i>	Immortality. Conquers Sin and Trial.
<i>Garnet</i>	Insures Power, Grace and Victory to the Wearer.
<i>Hyacinth</i>	Gives Second Sight.
<i>Jacinth</i>	Modesty.
<i>Jasper</i>	Courage and Wisdom.
<i>Moonstone</i>	Sacred Stone of the Orient. Good Luck.
<i>Onyx</i>	Conjugal Felicity.
<i>Opal</i>	Hope, Innocence, Purity.
<i>Pearl</i>	Purity and Innocence.
<i>Ruby</i>	Charity, Dignity and Divine Power.
<i>Sapphire</i>	Constancy, Truth and Virtue.
<i>Sardonyx</i>	Conjugal Felicity. Prevents Misfortune.
<i>Topaz</i>	Friendship and Fidelity.
<i>Turquoise</i>	Prosperity. Soul-cheerer.

SENTIMENT OF THE MONTHS.

JANUARY.

<i>The Guardian Angel</i>	Gabriel.
<i>His Talismanic Gem</i>	Onyx.
<i>The Special Apostle</i>	Simon Peter.
<i>The Zodiacal Sign</i>	Aquarius.
<i>The Flower</i>	Snowdrop.

By her who in this month is born,
No gems save garnets should be worn;
They will insure her constancy,
True friendship and fidelity.

Faithful, constant,
True to one,—
Claims the gleaming garnet
As her own.

FEBRUARY.

<i>The Guardian Angel</i>	Barchiel.
<i>His Talismanic Gem</i>	Jasper.
<i>The Special Apostle</i>	Andrew.
<i>The Zodiacal Sign</i>	Pisces.
<i>The Flower</i>	Primrose.

The February-born shall find
Sincerity and peace of mind,
Freedom from passion and from care,
If they an amethyst will wear.

Free from passion,
Care and strife,
If an amethyst she cherish
All her life.

MARCH.

<i>The Guardian Angel</i>	Malchediel.
<i>His Talismanic Gem</i>	Ruby.
<i>The Special Apostles</i>	James and John.
<i>The Zodiacal Sign</i>	Aries.
<i>The Flower</i>	Ipomœa, Violet.

Who on this world of ours their eyes
In March first open shall be wise,
In days of peril firm and brave,
And wear a bloodstone to their grave.

So strong, and wise, and wilful, firm and brave,
Wears a bloodstone through all danger to her grave.

APRIL.

<i>The Guardian Angel</i>	Ashmodei.
<i>His Talismanic Gem</i>	Topaz.
<i>The Special Apostle</i>	Philip.
<i>The Zodiacal Sign</i>	Taurus.
<i>The Flower</i>	Daisy.

She who from April dates her years,
 Diamonds shall wear, lest bitter tears
 For vain repentance flow. This stone
 Emblem of innocence is known.

Innocent, repentant —
 Sun and shower —
 Wears a diamond or a sapphire
 As her dower.

MAY.

<i>The Guardian Angel</i>	Amriel.
<i>His Talismanic Gem</i>	Carbuncle.
<i>The Special Apostle</i>	Bartholomew.
<i>The Zodiacal Sign</i>	Gemini.
<i>The Flower</i>	Hawthorn.

Who first beholds the light of day
 In spring's sweet, flowery month of May,
 And wears an emerald all her life,
 Shall be a loved and happy wife.

The happiest wife and mother in the land
 Wears an emerald shining on her hand.

JUNE.

<i>The Guardian Angel</i>	Muriel.
<i>His Talismanic Gem</i>	Emerald.
<i>The Special Apostle</i>	Thomas.
<i>The Zodiacal Sign</i>	Cancer.
<i>The Flower</i>	Honeysuckle.

Who comes with summer to this earth,
 And owes to June her hour of birth,
 With ring of agate on her hand
 Can health, wealth and long life command.

June, with health and wealth and many happy years,
 Wears an agate lest her sunshine turn to tears.

JULY.

<i>The Guardian Angel</i>	Verchiel.
<i>His Talismanic Gem</i>	Sapphire.
<i>The Special Apostle</i>	Matthew.
<i>The Zodiacal Sign</i>	Leo.
<i>The Flower</i>	Water-lily.

The glowing ruby shall adorn
 Those who in July are born ;
 Then they 'll be exempt and free
 From love's doubts and anxiety.

Loving, doubting, only finds her rest
 With a ruby glowing on her breast.

AUGUST.

<i>The Guardian Angel</i>	Hamatiel.
<i>His Talismanic Gem</i>	Diamond.
<i>The Special Apostle</i>	{ James, the son of Alpheus.
<i>The Zodiacal Sign</i>	Virgo.
<i>The Flower</i>	Poppy.

Wear a sardonyx, or for thee
 No conjugal felicity;
 The August-born without this stone,
 'T is said, must live unloved and lone.

Loving once and always, wears, if wise,
 Sardonyx, and her home becomes a paradise.

SEPTEMBER.

<i>The Guardian Angel</i>	Tsuriel.
<i>His Talismanic Gem</i>	Jacinth.
<i>The Special Apostle</i>	Lebbeus Thaddeus.
<i>The Zodiacal Sign</i>	Libra.
<i>The Flower</i>	Morning-glory.

A maiden born when September leaves
 Are rustling in September's breeze,
 A sapphire on her brow should bind —
 'T will cure diseases of the mind.

Chrysolite on sweet September's brow we bind,
 Lest some folly or enchantment cloud her mind.

OCTOBER.

<i>The Guardian Angel</i>	Bariel.
<i>His Talismanic Gem</i>	Agate.
<i>The Special Apostle</i>	Simon. (Zelotes.)
<i>The Zodiacal Sign</i>	Scorpio.
<i>The Flower</i>	Hops.

October's child is born for woe,
 And life's vicissitudes must know ;
 But lay an opal on her breast,
 And Hope will lull those woes to rest.

Fair October wears the opal's frost and fire,
 Hope and courage in misfortune to inspire.

NOVEMBER.

<i>The Guardian Angel</i>	Adnachiel.
<i>His Talismanic Gem</i>	Amethyst.
<i>The Special Apostle</i>	Matthias.
<i>The Zodiacal Sign</i>	Sagittarius.
<i>The Flower</i>	Chrysanthemum.

Who first comes to this world below
 With drear November's fog and snow,
 Should prize the topaz's amber hue—
 Emblem of friends and lovers true.

Firm in friendship is November, and she bears
 Loyal love beneath the topaz that she wears.

DECEMBER.

<i>The Guardian Angel</i>	Humiel.
<i>His Talismanic Gem</i>	Beryl.
<i>The Special Apostle</i>	Paul.
<i>The Zodiacal Sign</i>	Capricornus.
<i>The Flower</i>	Holly.

If cold December gave you birth,—
 The month of snow and ice and mirth,—
 Place on your hand a turquoise blue :
 Success will bless whate'er you do.

Friends and lovers for December, Fortune, **fame**,
If an amulet of turquoise bear her name.

MOTTOES FORMED WITH STONES.

In France and England, during the 18th century, rings, bracelets, brooches etc., were often set with gems the first letters of which, combined, formed a motto or expressed a sentiment. The following is a list of those that may be used in this way. The gems in the first column are the more expensive ones, those in the second column the inexpensive ones.

G Golden beryl.
O Opal.
O Olivine.
D Diamond.

Garnet.
Onyx.
Obsidian.
Dendrite.

L Lapis-lazuli.
U Uralian emerald.
C Cat's-eye.
K Kyanite.

Labradorite.
Unio pearl.
Carnelian.
Krokydolite.

F Fire-opal.
A Alexandrite.
I Iolite.
T Tourmaline.
H Hyacinth.

Flint.
Amethyst.
Idocrase.
Topaz.
Heliotrope

H	Hyacinth.	Hematite.
O	Opal.	Olivine.
P	Pearl.	Pyrope.
E	Emerald.	Essonite.

C	Cat's-eye.	Carbuncle.
H	Hyacinth.	Hematite.
A	Aquamarine.	Amethyst.
R	Ruby.	Rose quartz.
I	Iolite.	Iolocrase.
T	Tourmaline.	Topaz.
Y	Yellow sapphire.	Yu.

F	Fire-opal.	Flèches d'amour.
O	Opal.	Onyx.
R	Ruby.	Rutile.
E	Emerald.	Essonite.
V	Vermeille.	Verd antique.
E	Essonite.	Epidote.
R	Rubellite.	Rose quartz.

R	Ruby.	Rubellite.
E	Emerald.	Essonite.
G	Garnet.	Garnet.
A	Alexandrite.	Amethyst.
R	Ruby.	Rock-crystal.
D	Diamond.	Demantoid.

D	Diamond.	Demantoid.
E	Emerald.	Essonite.
A	Alexandrite.	Amethyst.
R	Ruby.	Rubellite.
E	Emerald.	Epidote.
S	Sapphire.	Spinel.
T	Turquoise.	Topaz.

S	Sapphire.	Sunstone.
O	Opal.	Onyx.
U	Uralian emerald.	Unio pearl.
V	Vermeille.	Verd antique.
E	Emerald.	Epidote.
N	Nephrite.	Nephrite.
I	Iolite.	Indicolite.
R	Ruby.	Rock-crystal.
B	Beryl.	Bloodstone.
O	Opal.	Onyx.
N	Nephrite.	Nicolo.
H	Hyacinth.	Hematite.
E	Emerald.	Essonite.
U	Uralian emerald.	Uralian emerald.
R	Ruby.	Rhodonite.
A	Alexandrite.	Almandine.
M	Moonstone.	Moonstone.
I	Indicolite.	Indicolite.
T	Tourmaline.	Topaz.
I	Idocrase.	Idocrase.
E	Emerald.	Essonite.
L	Lapis-lazuli.	Labrador spar.
O	Opal.	Onyx.
V	Vermeille.	Verd antique.
E	Emerald.	Essonite.
M	Moonstone.	Moonstone.
E	Essonite.	Epidote.

A E I. Greek, meaning "forever," "eternity."

A	Alexandrite.	Almandine.
E	Emerald.	Essonite.
I	Indicolite.	Idocrase.

ZES. Greek, meaning "Mayest thou live."

Z	Zircon.	Zonochlorite.
E	Emerald.	Essonite.
S	Sapphire.	Sard.
M	Moonstone.	Moldavite.
I	Indicolite.	Idocrase.
Z	Zircon.	Zonochlorite.
P	Peridot.	Pyrope.
A	Asteria.	Aquamarine.
H	Hyacinth.	Hematite.
F	Flèches d'amour.	Fluor-spar.
R	Ruby.	Rock-crystal.
I	Indicolite.	Idocrase.
E	Emerald.	Epidote.
N	Nephrite.	Nicolo.
D	Diamond.	Diopside.
S	Sapphire.	Sard.
H	Hyacinth.	Hematite.
I	Iolite.	Idocrase.
P	Pearl.	Pyrite.

STATE STONES.

Precious, semi-precious or gem stones are found in nearly all the United States. The most important are enumerated below :

<i>Alabama</i>	Beryl, blue and yellow; smoky quartz.
<i>Arizona</i>	Agatized wood, turquoise, garnet, peridot.
<i>Arkansas</i>	Rock crystal, smoky quartz, agate, novaculite.
<i>California</i>	Agate, diamond, gold quartz, tourmaline, abalone pearl, chrysoprase, Kunzite.
<i>Colorado</i>	Beryl, aquamarine, phenacite, garnet, amethyst, agate, gold quartz, pyrite.
<i>Connecticut</i>	Beryl, yellow and green; rose quartz; tourmaline.
<i>Delaware</i>	Pearl.
<i>Florida</i>	Chalcedony, conch pearl.
<i>Georgia</i>	Ruby, beryl, amethyst, gold quartz, garnet.
<i>Idaho</i>	Opal, agate, obsidian.
<i>Illinois</i>	Fluorite, pearl.
<i>Indian Territory</i>	Obsidian, pearl.
<i>Indiana</i>	Pearl.
<i>Iowa</i>	Fossil coral, pearl, chalcedony.
<i>Kansas</i>	Chalcedony.
<i>Kentucky</i>	Pearl.
<i>Louisiana</i>	Chalcedony.

- Maryland*.....Beryl, clam-pearl.
- Massachusetts*....Beryl.
- Maine*.....Tourmaline, beryl, rose quartz,
pearl, topaz, amazonite, smoky
quartz, rock crystal.
- Michigan*.....Agate, hematite.
- Minnesota*.....Chlorastrolite, thomsonite,
agate.
- Mississippi*.....Pearl, chalcedony.
- Missouri*.....Pearl, fluorite, pyrite.
- Montana*.....Sapphire, beryl, smoky
quartz, agate, amethyst,
agatized wood, obsidian.
- Nebraska*.....Chalcedony, pearl.
- Nevada*.....Gold quartz, rock crystal.
- New Hampshire*..Beryl, rock crystal, garnet.
- New Jersey*.....Fowlerite, willemite, prehnite,
smoky quartz, agate, pearl.
- New Mexico*.....Turquoise, garnet, obsidian,
peridot, rock crystal.
- New York*.....Beryl, brown tourmaline, rose
quartz, fresh-water pearl,
clam-pearl, chondrodite.
- North Carolina*..Aquamarine, beryl, emerald,
almandite garnet, pyrope-gar-
net, diamond, cyanite, hid-
denite, amethyst, ruby, sap-
phire, smoky quartz, rock
crystal, rutile.
- North Dakota*....Chalcedony, agate.
- Ohio*.....Fossil coral, chalcedony.
- Oregon*.....Agate, obsidian, hydrolite.

- Pennsylvania*....Amethyst, beryl, sunstone,
moonstone, amazonite, almandite garnet, pyrope-garnet,
rutile.
- Rhode Island*....Hornblende in quartz, amethyst, rock crystal.
- South Carolina*...Beryl, smoky quartz, rock crystal.
- South Dakota*....Quartzite, beryl, agate.
- Tennessee*.....Pearl.
- Texas*.....Beryl, pearl.
- Utah*.....Topaz, garnet.
- Vermont*.....Beryl, pearl.
- Virginia*.....Spessartite, garnet, beryl, moonstone, staurolite, allanite.
- Washington*....Pearl, agate.
- West Virginia*...Rock crystal.
- Wisconsin*.....Agate, pearl.
- Wyoming*.....Moss agate, agate.

APPENDIX.

PRECIOUS STONES.

UNMOUNTED PRÉCIOUS AND SEMI-PRECIOUS STONES, COLLECTIONS, ETC.

TIFFANY & Co. call attention to the exceptional advantages offered to their patrons in the services of experts at all the gem mining and cutting centres of the world, whose critical examinations and careful selections secure for their houses the choicest products, also the assurance to patrons that the vigilant scrutiny constantly employed absolutely guards against the admission of any inferior stones to their stock.

With their large corps of diamond cutters, precious stone and gem lapidaries, as well as gem engravers, they are in a position to recut gems for matching chipped or poorly cut diamonds or other gems, and also to cut or recut any precious stone or gem directly from the rough; to engrave crests, monograms or other devices on sapphires, alexandrites, topaz, bloodstone, sard or other stones for seals or signet rings, or to execute, to special order, caskets, vinaigrettes or other objects of rock crystal, jade and other hard stones.

Some collections of veritable antique intaglios and scarabæi engraved on sards, carnelians, chalcedonies, bloodstones, garnets, or other gems, all obtained from either well-known collectors or authorities.

Carbon, carbonado or bort from Brazil for dia-

mond drills and mining operations, in quantities of few carats up to parcels containing thousands of carats.

Collections :

The two most complete collections of precious and semi-precious stones in the United States are those prepared by TIFFANY & CO. for the Paris Exposition, 1889, and the World's Columbian Exposition, 1893.

The first-named collection, which received two gold and one silver medals at the Paris Exposition, was purchased by J. Pierpont Morgan, Esq., and presented to the American Museum of Natural History, Central Park, New York. It has been placed on permanent exhibition there, and is known as the "Tiffany-Morgan Collection."

The other collection received several special awards at the World's Columbian Exposition, and was purchased by the "Field Columbian Museum," Chicago, where it is placed on exhibition in Higinbotham Hall. Another valuable collection has been purchased by the Mid-winter Fair Memorial Museum of San Francisco.

TIFFANY & CO. give special attention to preparing unique scientific collections of gems for Museums, and stones selected for color studies for Art Institutes.

Various Uses of Stones :

In the preparations of jeweled prizes and emblems of special events, for either colleges, horse-races or regattas, the racing or other special colors can be faithfully simulated in selections from TIFFANY & CO.'s large stock of colored gems.

The gems of the birth-month are frequently mounted into rings, charms, and other devices, with the zodiacal signs wrought into the settings, also the flower of the month, etc.

UNMOUNTED STONES.

TIFFANY & Co.'s stock of unmounted stones includes the following:

Phenomenal Gems.

CHRYSOBERYL CAT'S-EYE, ALEXANDRITE CAT'S-EYE, ALEXANDRITE, RUBY AND SAPPHIRE ASTERIA, MOONSTONE—with light blue and white Chatoyancy,

Alexandrite.

Leaf or olive green by natural or day-light, and columbine or raspberry red by artificial light, from Ceylon and Takawaja, Asiatic Russia.

Amethyst.

Rich royal purple, from the Ural Mountains and Auvergne, France. Red by artificial light, from the Ural Mountains. Fine purple from Brazil, South America, and North Carolina.

Aquamarine.

Deep blue, from Brazil; green and blue, from the Ural Mountains Siberia, and North Carolina; light blue and light green, from Maine.

Asteria.

Light blue, blue, purple, light red, and **ruby** red, from Ceylon and Burmah.

Beryl.

Light blue and green, from Maine, North Carolina, Connecticut, Colorado, Brazil, and Siberia. Deep blue, from North Carolina and Brazil. Yellow, and yellow brown, golden beryl, from Connecticut, the Ural Mountains, and Siberia.

Chlorastrolite.

From Isle Royal, Lake Superior.

Chrysoberyl.

Light yellow, golden yellow, yellow brown, yellowish green, green sage, green, olive green, from Brazil and Ceylon.

Chrysoberyl Cat's-eye.

Light yellow, yellow, yellowish brown, and green, from Brazil and Ceylon. Also Alexandrite Cat's-eyes, green by day and red by night, from Ceylon.

Diamond.

From India, Brazil, and South Africa. White, steel blue, rose colored, lemon and orange, yellow, cinnamon, light green, brown, black, and a large assortment of rare and curious tints, from which material for a necklace, brooch, ring, or other jewel can be selected.

Emerald.

Rich velvet and grass-green, from the Muso mine, New Granada. Light green from Takawaja, Asiatic Russia, and New South Wales.

Essonite.

Or Hyacinths, from Ceylon.

Garnet.

Rich red, almost ruby red, from Arizona, New Mexico, and South Africa. Purple and almandine, from India and Bohemia. Honey yellow (essonite or hyacinth variety), from Ceylon. Honey brown, reddish brown (spessartite variety), from Virginia. Green (demantoid variety), rich, vivid green, green, yellow green, from the Ural Mountains.

Jade.

From New Zealand.

Kunzite.

Rich lilac, pink, and rose, from near Palo, California.

Moss Agate.

From Wyoming, India, and Brazil.

Opal.

Precious variety from the State of Washington, Oregon, Idaho, Queensland, New South Wales, and Hungary. Fire opal, limpid and deep red, from Mexico,

Pearl.

From Ceylon, Persian Gulf, Western Australia, and Sooloo Archipelago. Perfectly white Oriental pearls of exceptional size and beauty. Black and gray pearls from the Lower California coast. Pink or conch pearls from Florida and the West Indies. White, pink, brown, purple, and other colored pearls from the fresh-water brooks of Ohio, Tennessee, Texas, Kentucky, and Wisconsin rivers. Purple and black pearls from the common clam of Long Island Sound and the Atlantic coast. Green or iridescent pearls from the abalones or earshells of the California coast.

Peridot.

(Olivine and Chrysolite). Rich olive green, from the Levant. Small olive green, yellow green, from Arizona and New Mexico.

Phenacite.

From Takawaja, Asiatic Russia, and Colorado and Maine.

Rhodonite.

Rich flesh red, from the Ural Mountains, and Cummington, Mass.

Rock Crystal.

From North Carolina and California, in pieces large enough to cut into jewel caskets, bonbonnières, vinaigrettes, hand-mirrors, clock-cases and other small objects of art.

Ruby.

Pigeon's-blood red, from Burmah. Light red, with tint of purple, from Ceylon, and North Carolina. Dark beef-blood red, from Siam, and light red, from the Ural Mountains.

Rutilated Quartz.

From North Carolina, and Switzerland.

Rutile.

From North Carolina.

Sapphire.

Cornflower blue, dark velvet blue (*bleu de roi*), from Ceylon. Light blue, peacock blue, from Burmah and Siam. Green, lemon and straw yellow, salmon-colored pink, heliotrope purple, white and other colors, from Ceylon, Burmah, Siam, Montana, and the Ural Mountains.

Spinel.

Ruby red, flame red, yellowish red, pink, purple, blue, blue green, and green in a variety of tints, from Ceylon, Siam, and Burmah.

Topaz.

Wine yellow, pink, white, and sherry colored, from Brazil. Salmon colored, light blue, light green, white, from Colorado and the Ural Mountains.

Tourmaline.

Light green, olive green, grass-green, dark green, from Maine, California, and Brazil. Blue (indicolite), from Maine and Brazil. Red, pink (rubelite), from Maine, Brazil, and the Ural Mountains. Brown, from Ceylon and Carinthia. White (achroite), from Brazil and Maine.

Turquoise.

Sky blue, from Persia. Fine sky blue and robin's-egg blue, from New Mexico.

Zircon.

Yellow, honey yellow, yellow green, light green, brownish green, green, yellow brown, brown, white, cinnamon, from Ceylon and Australia.

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