



OPTICAL FIBER FUSION SPLICER

AI-9 PRODUCT MANUAL

www.signalfiresplicer.com

SIGNAL FIRE TECHNOLOGY CO., LTD.





OPTICAL FIBER FUSION SPLICER

OPTICAL FIBER FUSION SPLICER



NEW PRODUCT LAUNCH

CLASSIC MASTERPIECE



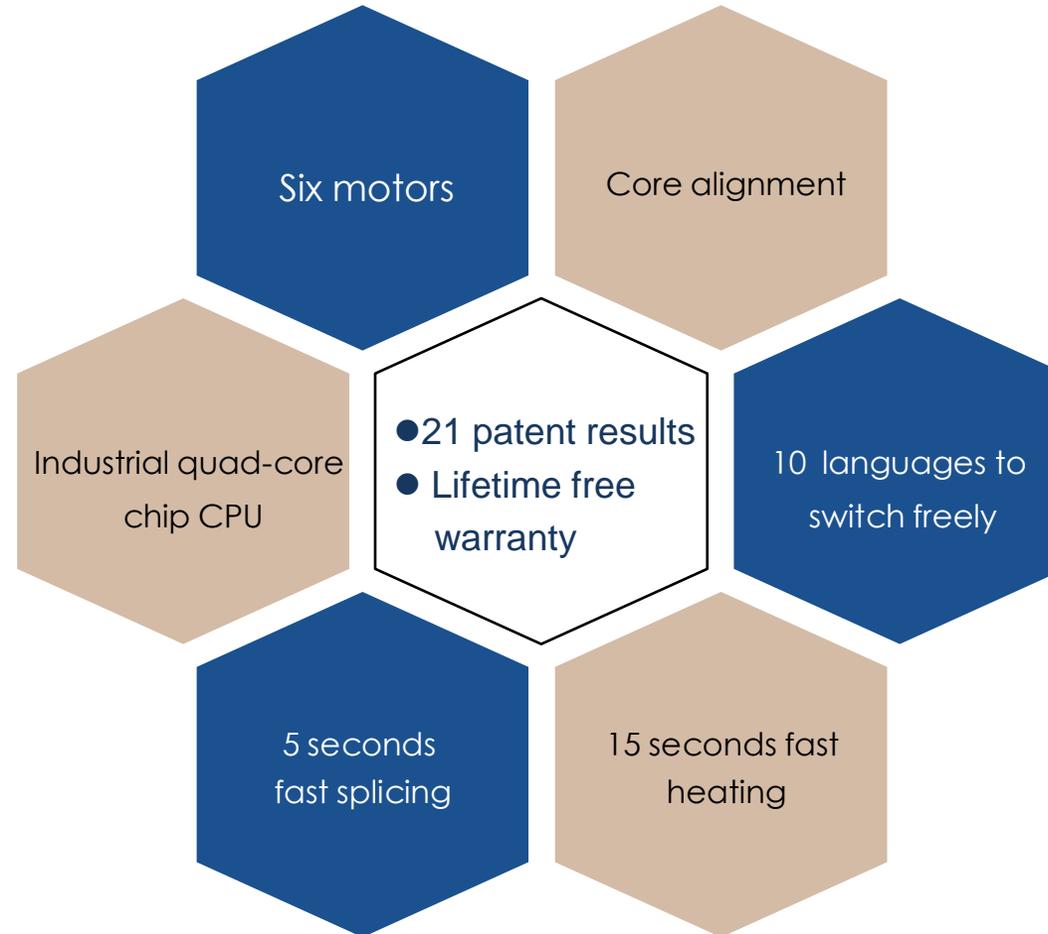
OPTICAL FIBER FUSION SPLICER

Signal Fire AI-9 use the latest core alignment technology with auto focus and six motors, it is a new generation of fiber fusion splicer. It is fully qualified with trunk construction of medium and short distance, FTTH project, security monitoring and other fiber cable splicing projects. The machine uses industrial quad-core CPU, fast response, is currently one of the fastest fiber splicing machine in the market; with 5-inch 800X480 high-resolution screen, the operation is simple and intuitively; and up to 300 times focus magnifications, making it is very easy to observe the fiber with naked eyes. 5 seconds speed core alignment splicing, 15 seconds heating, the working efficiency increased by 50% compared to ordinary splicing machines. Under the conditions of rigorous testing, the performance is still outstanding; toolbox is small, exquisite, durable, and with unique bench design. The design of operating platform reflects the humanistic care; unique lighting design, it is convenient for night construction or repair. Screen brightness is adjustable and it is convenient for outdoor sunshine environment operation. The core parts are using imported brands, aviation metal body material with exquisite details. With the combination of advanced technology and design, the new generation of optical fiber fusion splicer will bring you a reliable and comfortable user experience.

MASTERPIECE HIGH-END LUXURY



OPTICAL FIBER FUSION SPLICER



● Once splicing reaches to 50,000 times free replacement a new machine

METAL BODY AESTHETIC DETAILS



OPTICAL FIBER FUSION SPLICER



VFL: Always on / flashing / off

Power Meter:

850nm/1300nm/1310nm/1490nm

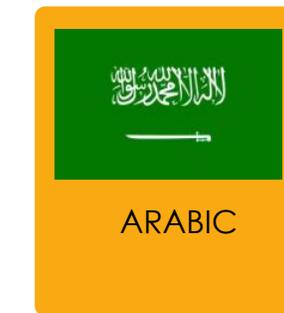
/1550nm/1625nm Six states

BUILT-IN POWER METER AND VFL

Effectively measure connection loss, verify continuity, and help assess fiber link transmission quality.

10 LANGUAGES TO SWITCH FREELY

Covers the global major user market



CORE PARTS QUALITY ASSURANCE



Siemens stepper motor



Roth ROUST linear guide



Sanyo lithium battery



Aviation metal material

THE TOOLBOX COMES WITH A STOOL TO FACILITATE THE CONSTRUCTION WORKERS.



OPTICAL FIBER FUSION SPLICER



Remove
the stool



Do not need to take out the
splicer machine from the
toolbox while working.

Fiber cleave operator station



Two
layers

Stool can bear
100kg

INDUSTRIAL QUAD-CORE CHIP CPU



Synchronous
operation

speed
response

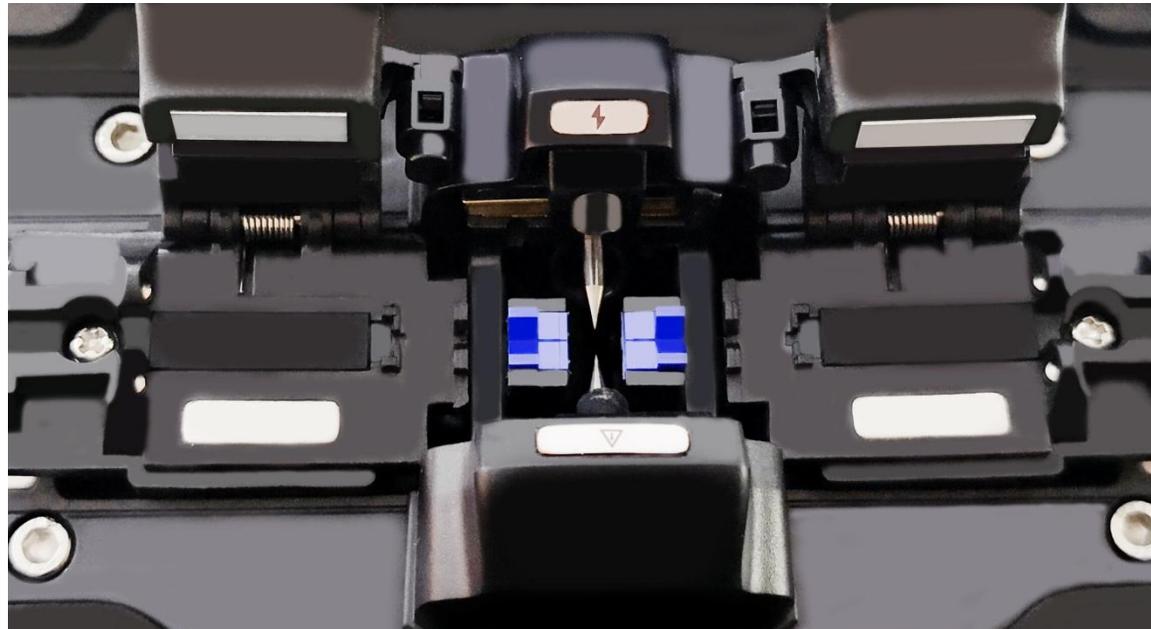
no
jammed

super
experience

3 IN 1 FIBER HOLDER



SM, MM, bare fiber, pigtail, rubber-insulated, multi fiber cable



THE BATTERY POPUP AUTOMATICALLY



**7800 mA high-capacity
lithium battery**

- charging time \leq 3.5 hours
- continuous splicing and heating
about 200 times



Press to popup
the battery

Show good performance in plateau, desert, and extreme cold environment



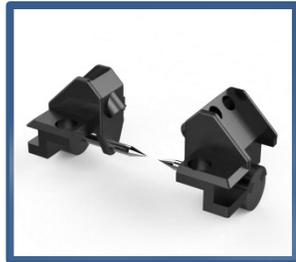
BASIC PARAMETER

Fiber alignment	Core/cladding alignment / Manual alignment	Built-in lighting	easy for night operation
Splicing time	5S	Tension Test	Standard 2N
Heating time	15S	Fiber holders	3 in 1 fiber holder, SM, MM, bare fiber, pigtail, rubber-insulated, multi fiber cable
Heating mode	Automatic heating (Preheating)	Magnification	300 for X or Y view, 150 for X or Y view
Focus mode	Six motors Auto focus	Screen	5 inch TFT color display
Applicable Fibers	SM(G.652&G.657)、MM (G.651) 、DS(G.657)、NZDS (G.655)	Splicing Mode	Normal / high precision splicing
Splice Loss	0.025dB (SM) 、 0.01dB (MM) 0.04dB (DS/NZDS)	Splicing method	Fully automatic、 Step by step splicing
Control technology	Real-time control and calibration of fusion ARC	Splicing record storage	Synchronize to the phone, the server to cloud storage unlimited
Return loss	Better than 60DB	Built-in battery	7800 mA high-capacity lithium battery, charging time ≤ 3.5 hours, continuous splicing and heating about 200 times
Fiber diameter	Cladding Diameter : 80-150μm Coating Diameter : 100-1000μm	Power supply	Input AC100-240V 50 / 60HZ, output DC13.5V / 4A, the current power mode can be identified, real-time detection of battery power
Fiber Cleave Length	Coating less than 250μm : 8-16mm Coating less than 250-1000μm:16mm	Operating Conditions	Temperature -15 ~ +50 °C, humidity: <95% RH (no condensation) Working altitude: 0 ~ 5000m. Resist max. wind speed: ≤ 15m / s
Software update Length	Automatically update、 Update by a key	Shrinkable tube	60mm、 50mm、 40mm、 25mm
Boot time	1 second	Product protection	Waterproof, dust proof, shock-resistant
Visual Fault Locator	Power:15mw,2hzflashing And Constantly Bright Mode	Optical Power Meter	Wavelength:850nm、 1300nm、 1310nm、 1490nm、 1550nm、 1625nm Measuring Range:-70 ~ +6db Absolute Error:<0.3db(-50dbm ~ +3dbm Range)

Accessories in the tool box



Fiber Cleaver



Spare electrode



Wire stripping pliers



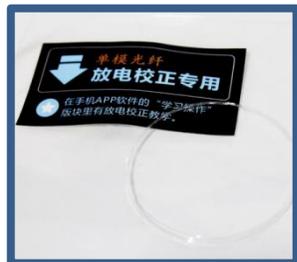
Miller stripper



Hex key



carrying case



Fiber for
ARC calibration



Strap



Power Adapter



Alcohol Bottle

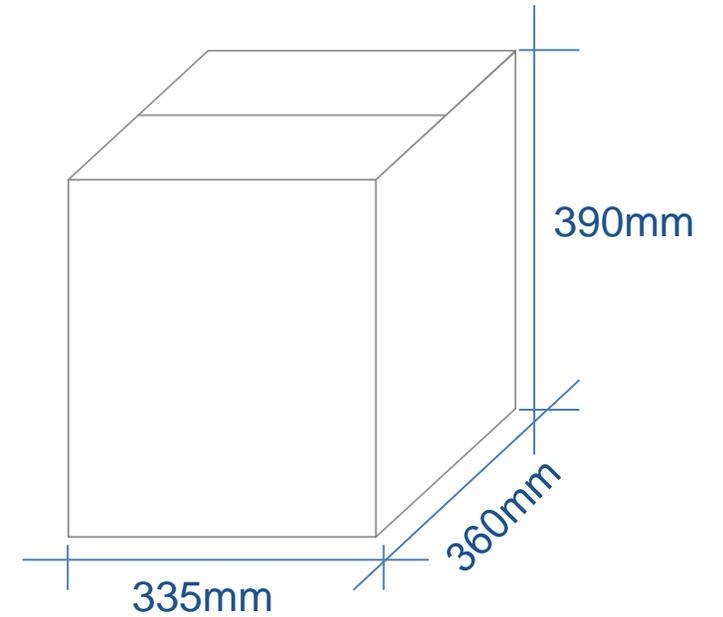
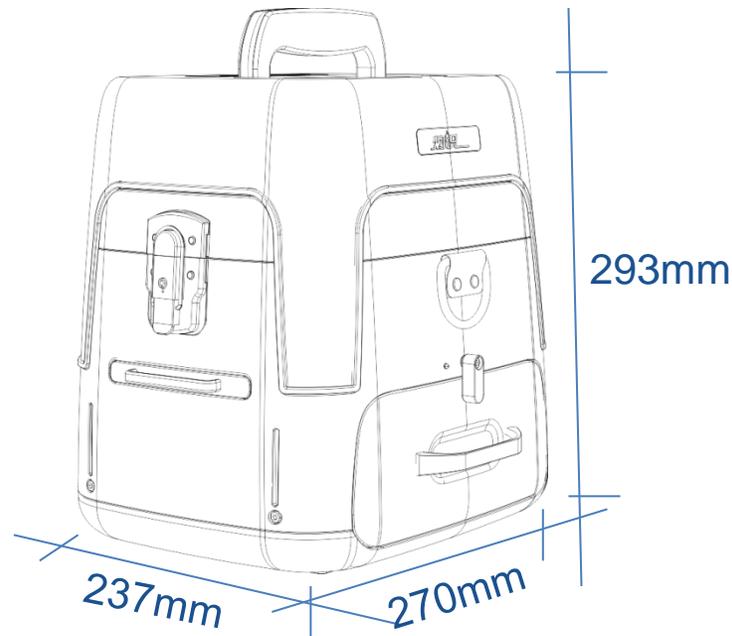
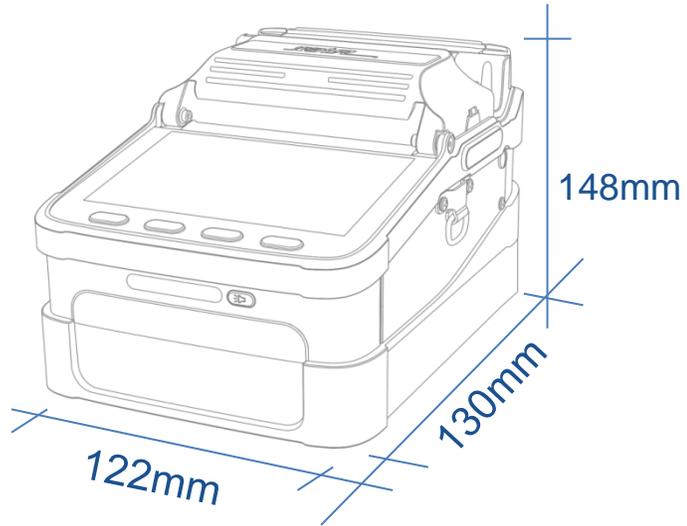


Brush



User's manual
Quality Certificate
Warranty Card

SIZE





OPTICAL FIBER FUSION SPLICER

ABOUT US



Signal Fire Technology Co.,Ltd. Is A High-Tech Enterprise Which Is Specialized In Research And Development, Production And Sales Of Communications Products. The Main Products Are Automatic Intelligent Optical Fiber Fusion Splicer, Optical Time Domain Reflectometer (OTDR), Light Power Meter, Optical Cable Construction Tools Equipment, Fiber Fusion And Taper Equipment, Optical Cable Blowing Machine Etc. Our Products Are Widely Used In China Telecom, China Mobile, China Unicom, Broadcasting, Electricity, Railways, Petrochemical, Military, Coal Industry, Research Institutions And Other Fields.



Our Company Has A Modern Production Plant And Standardized Office Buildings, With A Total Area Of Nearly 6,000 Square Meters, About 200 Employees, Including 10 Senior Engineers, 12 Master's Degree Or Above, Bachelor Degree Or Above Accounted For 45%. Our Company Owns Independent Intellectual Property Rights For Signal Fire Automatic Intelligent Optical Fiber Fusion Splicer And Its Related Products. Our Products Have Been Sold To Many Countries And Regions, Including North America, South America, Europe And Southeast Asia Etc, Our Products Have Gained Highly Praise From Customers.

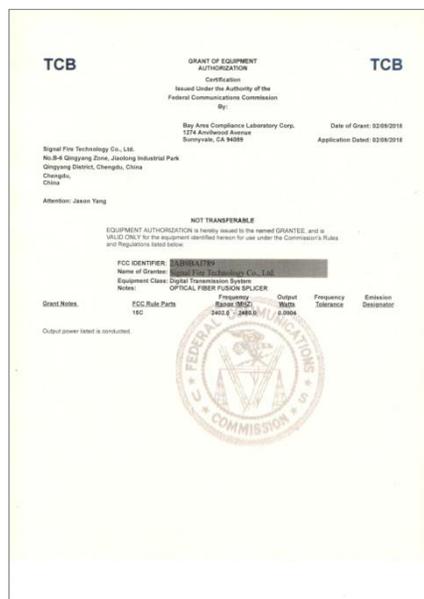
INTELLECTUAL PROPERTY



OPTICAL FIBER FUSION SPLICER



CE



FCC



ROHS



IOS9001



OPTICAL FIBER FUSION SPLICER

PATENTS FOR INVENTIONS



证书号第1662044号




发明专利证书

发明名称：光纤熔接机的光纤推进控制方法及光纤熔接机

发明人：罗春晖

专利号：ZL 2013 1 0379722.8

专利申请日：2013年08月28日

专利权人：罗春晖

授权公告日：2015年05月13日

本发明经过本局依照中华人民共和国专利法进行审查，决定授予专利权，颁发本证书并在专利登记簿上予以登记，专利权自授权公告之日起生效。

本专利的专利权期限为二十年，自申请日起算，专利权人应当依照专利法及其实施细则规定缴纳年费，本专利的年费应当在每年08月28日前缴纳，未按照规定缴纳年费的，专利权应当自应当缴纳年费期满之日起终止。

专利证书记载专利权登记时的法律状况，专利权的转移、质押、无效、终止、恢复和专利权人的姓名或名称、国籍、地址变更等事项记载在专利登记簿上。

局长 申长雨



2015年05月13日

第1页(共1页)

证书号第2046249号




发明专利证书

发明名称：手机控制光纤熔接机的方法以及实现该方法的纤维熔接机

发明人：罗春晖

专利号：ZL 2014 1 0192764.5

专利申请日：2014年05月08日

专利权人：罗春晖

授权公告日：2016年04月27日

本发明经过本局依照中华人民共和国专利法进行审查，决定授予专利权，颁发本证书并在专利登记簿上予以登记，专利权自授权公告之日起生效。

本专利的专利权期限为二十年，自申请日起算，专利权人应当依照专利法及其实施细则规定缴纳年费，本专利的年费应当在每年05月08日前缴纳，未按照规定缴纳年费的，专利权应当自应当缴纳年费期满之日起终止。

专利证书记载专利权登记时的法律状况，专利权的转移、质押、无效、终止、恢复和专利权人的姓名或名称、国籍、地址变更等事项记载在专利登记簿上。

局长 申长雨



2016年04月27日

第1页(共1页)

证书号第2116213号




发明专利证书

发明名称：一种光纤熔接机

发明人：罗春晖

专利号：ZL 2014 1 0335082.5

专利申请日：2014年07月15日

专利权人：罗春晖

授权公告日：2016年06月22日

本发明经过本局依照中华人民共和国专利法进行审查，决定授予专利权，颁发本证书并在专利登记簿上予以登记，专利权自授权公告之日起生效。

本专利的专利权期限为二十年，自申请日起算，专利权人应当依照专利法及其实施细则规定缴纳年费，本专利的年费应当在每年07月15日前缴纳，未按照规定缴纳年费的，专利权应当自应当缴纳年费期满之日起终止。

专利证书记载专利权登记时的法律状况，专利权的转移、质押、无效、终止、恢复和专利权人的姓名或名称、国籍、地址变更等事项记载在专利登记簿上。

局长 申长雨



2016年06月22日

第1页(共1页)

证书号第2044664号




发明专利证书

发明名称：一种移动终端通过无线通信技术控制的光纤熔接机

发明人：罗春晖

专利号：ZL 2014 1 0192777.2

专利申请日：2014年05月08日

专利权人：罗春晖

授权公告日：2016年04月27日

本发明经过本局依照中华人民共和国专利法进行审查，决定授予专利权，颁发本证书并在专利登记簿上予以登记，专利权自授权公告之日起生效。

本专利的专利权期限为二十年，自申请日起算，专利权人应当依照专利法及其实施细则规定缴纳年费，本专利的年费应当在每年05月08日前缴纳，未按照规定缴纳年费的，专利权应当自应当缴纳年费期满之日起终止。

专利证书记载专利权登记时的法律状况，专利权的转移、质押、无效、终止、恢复和专利权人的姓名或名称、国籍、地址变更等事项记载在专利登记簿上。

局长 申长雨



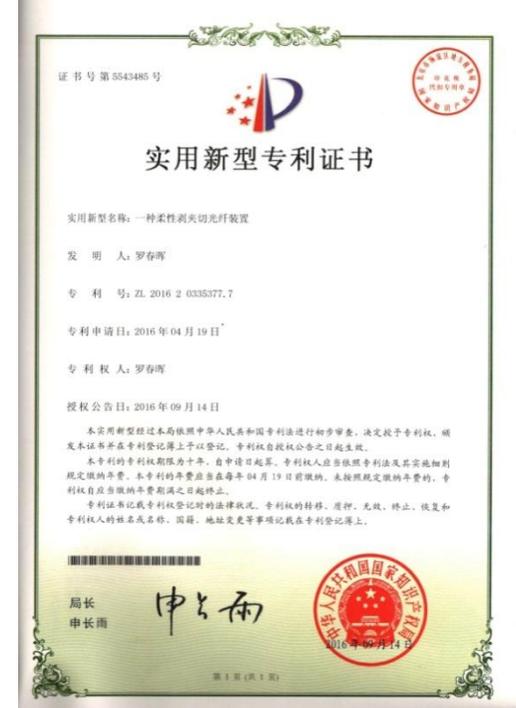
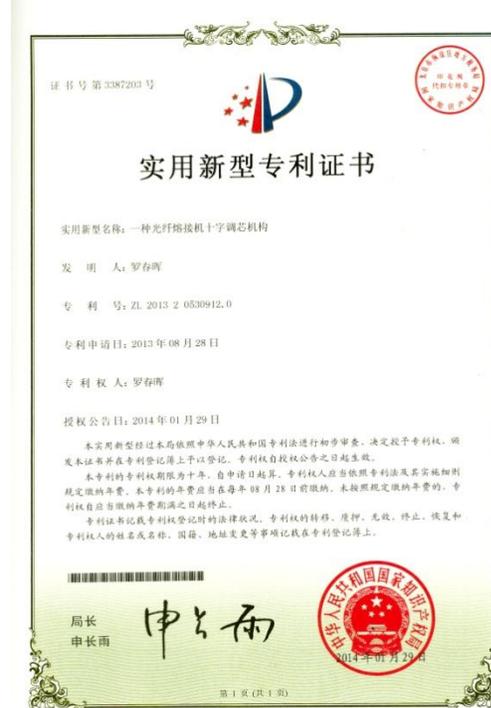
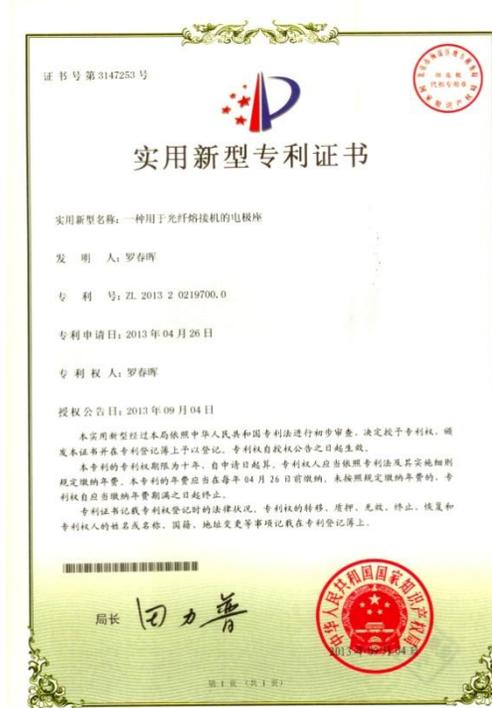
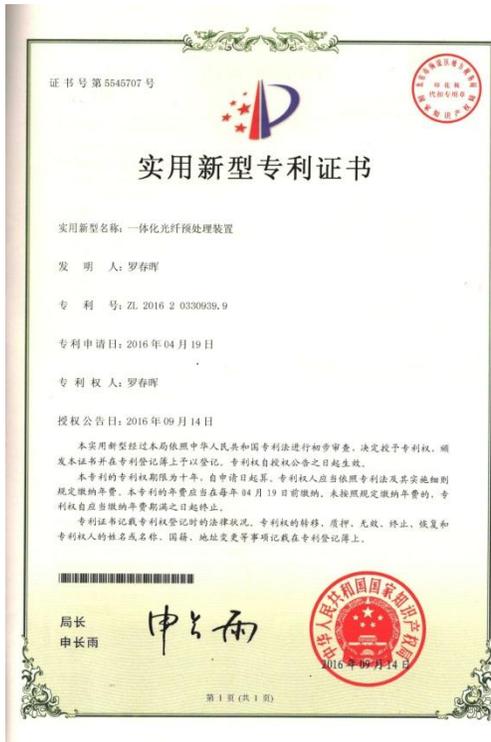
2016年04月27日

第1页(共1页)



OPTICAL FIBER FUSION SPLICER

PATENTS OF UTILITY MODEL





OPTICAL FIBER FUSION SPLICER

PATENTS OF UTILITY MODEL

