# ARIAD

## ASSET MANAGEMENT

## **ARIAD Patent Equity Strategy** Profit from Intellectual Property NENT AUN

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## **Executive Summary**

#### **Intellectual Property**

#### ✓ Relevance

- Intangible assets account for the majority (>80%) of the market capitalisation of S&P500 companies
- Patent applications tripled in the last 3 decades
- Products becoming more complex, building upon many patents
- Licensing income from patents becoming more important

#### Scientifically Validated Connection to Company Success

- Patents protect innovations
- Patents increase:

company value revenue overall profitability

#### Patent Data Processing

- Standardised, but complex patent information on various complex processes as a basis
- Is made usable from a database technical point of view (prepared, cleaned and correctly assigned)
- Calculation of scientifically based patent indicators
- The ARIAD company universe is made smaller by means of filter processes
- Universe basis:

company (mkt. cap. > €200 million) from "MSCI Developed Countries"

#### Outperformance from micro, small & mid cap ,,hidden champions"

- Clear outperformance in the Europe and Japan/Pacific regions
- Main sectors: industry, health/pharmaceuticals and technology
- Many candidates for inclusion "identified" at an early stage

Since the start of 2015, the ARIAD Patent Equity Strategy has also been very successfully implemented in a **mutual fund**.

## **Background & the Strategy** Put the future in your portfolio - today PATENT LICENSE AGREEMENT

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## Intellectual Property as Indicator

What do these 37 companies have in common?





3. In our portfolio before takeover

## ntellectual Property is highly relevant



#### **Reasons for the growing relevance**

## 1. Complexe products ... based on many patents.

#### 2. Emerging economies

... in eastern Asia are seeking industrial property rights.

#### 3. Patent infringement suits

... in recent years ensure a more effective use of industrial property rights.

#### 4. Licensing income

... is becoming increasingly important.

#### **Company IBM:**

- 1990: USD 30 million
- 2017: USD 1,193 million

## P atents protect Innovations

... and have a scientifically validated. positive influence on a company's success.





#### **Scientific confirmation**

- Tobin (1969); Wernerfelt u. Montgomery (1988); Lang und Stolz (1994); Bosworth u. Rogers (2001), Lee u. Grewal (2004); ...
- Powell u. Dent-Micallef (1997); Spanos u. Lioukas (2001);
   Baum u. Wally (2003); Wiklund u. Shepherd (2003);
   Desarbo et al. (2005); ...
- Penner-Han u. Shaver (1995); Baum u. Wally (2003); De Carolis (2003); Tanriverdi u. Venkatraman (2005); ...

#### ... also of the ARIAD patent approach!



**Prof. Dr. Houdou Basse Mama** ESCP Europe (Berlin Campus)

"Innovative efficiency and stock returns: Should we care about nonlinearity?" – Finance Research Letters (2017)





Close cooperation

ARIAD patent approach & data ... scientifically verified

## www.example.com/secondstates/se



#### **Countless Variables**

Von (10) Patent designation [...] ....über (50) technical data[...] ... bis (98) [...] application-date for the extension of the duration [...] Citations

#### **Big-Data Chaos**

Patents are practically never stand-alone. They form a network of forward and backward citations, contradictions and superior patent families.

In combination with the countless variables of a single patent specification, this results in a jumble of information: **Big Data Chaos.** 

#### The challenge is to make this information usable.



## From Patents to the Patent Equity Strategy

Leveraging Big Data to drive investment returns PATENT LICENSE AGREEMENT

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## Making Patent Information usable

"Big Data"-Chaos

= Information-Overkill

#### From patent data to patent indicators

Using various complex **processes** (1.-5.) the patent information is made usable from a technical database point of view, prepared, cleaned and correctly assigned. Here, the **Group Structure Research** in particular is very time-consuming, since, for example, Siemens alone has more than 600 different subsidiaries with patents.

On the basis of the prepared data, **indicators are then calculated** that have a proven correlation to the value of patents.

#### Indicators

- > Citations
- Terms
- Patent Extents
- > Patent Families

› ...

## Stock Selection

3. Group structure research

4. Patent allocation

5. Analysis & Calculation

ARIAD

#### 2.Data Error fixing

1. Data preparation

## I he global ARIAD Patent-Universe





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## he Strategy at a Glance

- Companies with a high-quality patent portfolio receive investment. (mainly small/midcaps)
- Positive side effect: above-average number of candidates for takeover in the portfolio - before takeover offers are known on the market.
- Regionally, the investments concentrate on USA and Japan/Pacific alongside the main focus of Europe.

- The selection of regions and sectors is determined by the quality of the patent portfolio.
- High degree of diversification. (approx. 100 titles in the portfolio)
- Items are held in the medium to long term.
- Adaptation according to ranking
  - "Opportunistic" transactions possible during the year
  - No currency hedging
- The main focus of the selection process is the systematic quality evaluation of the patent portfolio using many scientifically validated indicators. This patent license agreement Oberematter referred to as the

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## **Results of the Strategy:**

Outperformance, especially by small & mid cap stocks PATENT LICENSE AGREEMENT

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#### P erformance of the "World" Patent Strategy: Multiple Track Records Prove the Added Value



#### **TECHNOLOGY LEADERS IN MEGATRENDS IDENTIFIED BY PATENT DATA**

10%

15%

20%

25%

Quelle: ARIAD - Updated 02/29/2024

## **R**egion Europe



Including transaction costs Source: ARIAD - 02/29/2024

## **Region Japan/Pacific**



## **R**egion North America



## **F** urther Information

The ARIAD Patent Equity Strategy : has been fully implemented in a **mutual fund** since 2015:

Monega ARIAD Innovation (WKN 532102) www.monega.de

As an institutional investor you can **register for a monthly update** on the strategy at <u>www.ariad.de</u>.



## **Contact Information**

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